

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No. UTU-020252
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA Agreement, Name and No. Jonah Unit
8. Lease Name and Well No. Jonah Federal Q-5-9-17
9. API Well No. 43013-33922
10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 5, T9S R17E
12. County or Parish Duchesne
13. State UT

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator
Newfield Production Company

3a. Address
Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)
(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface SW/SW 588' FSL 521' FWL

At proposed prod. zone 1170' FSL 1300' FWL

14. Distance in miles and direction from nearest town or post office*
Approximately 13.7 miles southeast of Myton, Utah

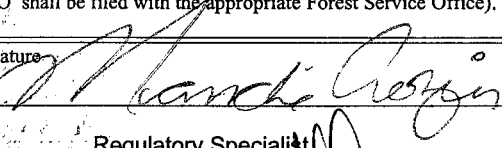
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1170' f/ise, 1170' f/unit	16. No. of Acres in lease 320.13	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1387'	19. Proposed Depth 6165'	20. BLM/BIA Bond No. on file WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5245' GL	22. Approximate date work will start* 2nd Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.
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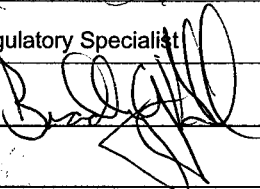
24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 2/29/08
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Title Regulatory Specialist

Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 03-20-08
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Title Office	ENVIRONMENTAL MANAGER
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Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

Federal Approval of this
Action is Necessary

RECEIVED

MAR 06 2008

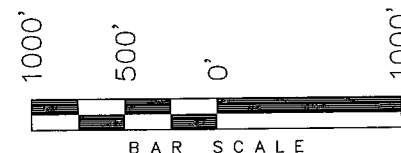
DIV. OF OIL, GAS & MINING

Surf
582115X
4434012Y
40.654250
110.037222

BHL
582352X
4434193Y
40.055853
110.034479

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, JONAH UNIT Q-5-9-17,
LOCATED AS SHOWN IN THE SW 1/4 SW
1/4 OF SECTION 5, T9S, R17E, S.L.B.&M.
DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLOT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W.
STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 12837
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED:
12-12-07

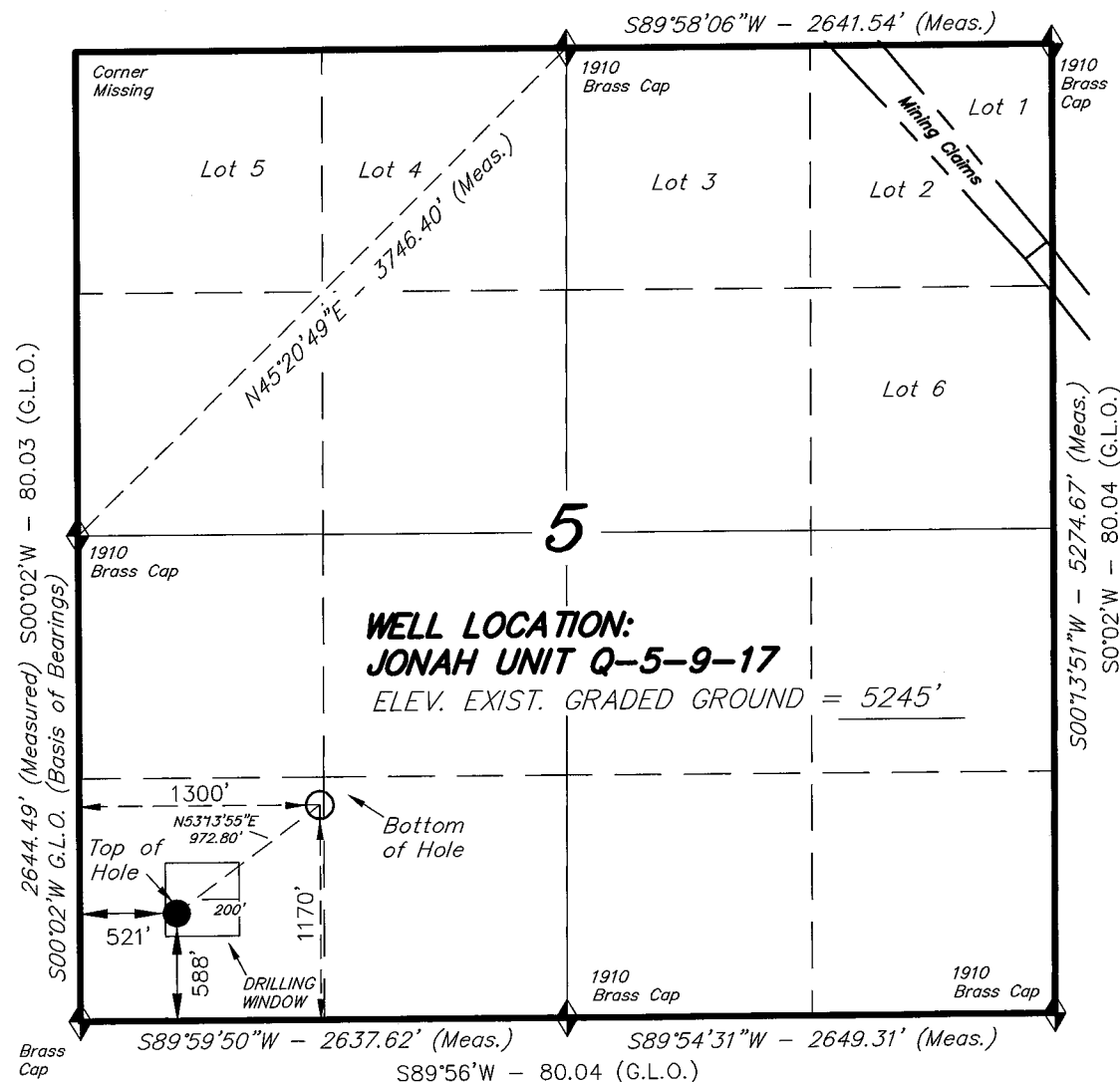
SURVEYED BY: T.H.

DATE DRAWN:
12-27-07

DRAWN BY: F.T.M.

REVISED:
02-11-08 L.C.S.

SCALE: 1" = 1000'



 = SECTION CORNERS LOCATED

BASIS OF ELEV;
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

JONAH UNIT Q-5-9-17
(Surface Location) NAD 83
LATITUDE = 40° 03' 15.34"
LONGITUDE = 110° 02' 16.96"

NEWFIELD PRODUCTION COMPANY
JONAH FEDERAL #Q-5-9-17
AT SURFACE: SW/SW SECTION 5, T9S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 1412'
Green River	1412'
Wasatch	6165'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1412' – 6165' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

NEWFIELD PRODUCTION COMPANY
JONAH FEDERAL #Q-5-9-17
AT SURFACE: SW/SW SECTION 5, T9S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Jonah Federal #Q-5-9-17 located in the SW 1/4 SW 1/4 Section 5, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly - 9.9 miles \pm to it's junction with an existing dirt road to the southwest; proceed southwesterly - 0.9 miles \pm to it's junction with an existing road to the southeast; proceed southeasterly - 0.8 miles \pm to it's junction with an existing dirt road to the southwest; proceed southwesterly - 0.7 miles \pm to the existing Monument Federal 14-5-9-17 well lcoation.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Monument Federal 14-5-9-17 well pad. See attached Topographic Map "B".

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

The proposed well will be drilled directionally off of the Monument Federal 14-5-9-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Jonah Federal Q-5-9-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District
Water Right: 43-10136

Neil Moon Pond
Water Right: 43-11787

Maurice Harvey Pond
Water Right: 47-1358

Newfield Collector Well

Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Jonah Federal Q-5-9-17 will be drilled off of the existing Monument Federal 14-5-9-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests a 400' ROW be granted in Lease UTU-72105, 700' of disturbed area be granted in Lease UTU-44426, and 520' of disturbed area be granted in Lease UTU-020252 to allow for construction of the proposed water lines. It is proposed that the ROW disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for the 1,620' of proposed water injection pipeline will be forthcoming.

Water Disposal

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Threatened, Endangered, And Other Sensitive Species

None for the proposed Jonah Federal Q-5-9-17.

Reserve Pit Liner

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

Location and Reserve Pit Reclamation

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrel Tail	<i>Elymus Elymoides</i>	5 lbs/acre
Crested Wheatgrass	<i>Agropyron Cristatum</i>	5 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	0.5 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	0.5 lbs/acre
Forage Kochia	<i>Kochia Prostrata</i>	0.25 lbs/acre

Details of the On-Site Inspection

The proposed Jonah Federal Q-5-9-17 was on-sited on 1/15/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production), Michael Cutler (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management).. Weather conditions were clear and the ground was covered by snow.

LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Dave Allred
Address: Route #3 Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

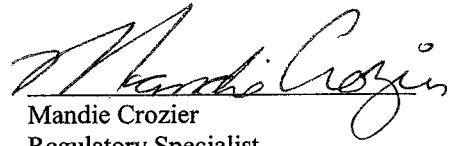
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #Q-5-9-17 SW/SW Section 5, Township 9S, Range 17E: Lease UTU-020252 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2/29/08

Date


Mandie Crozier
Regulatory Specialist
Newfield Production Company



Scientific Drilling
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: Plan #1

Howfield Exploration Co.

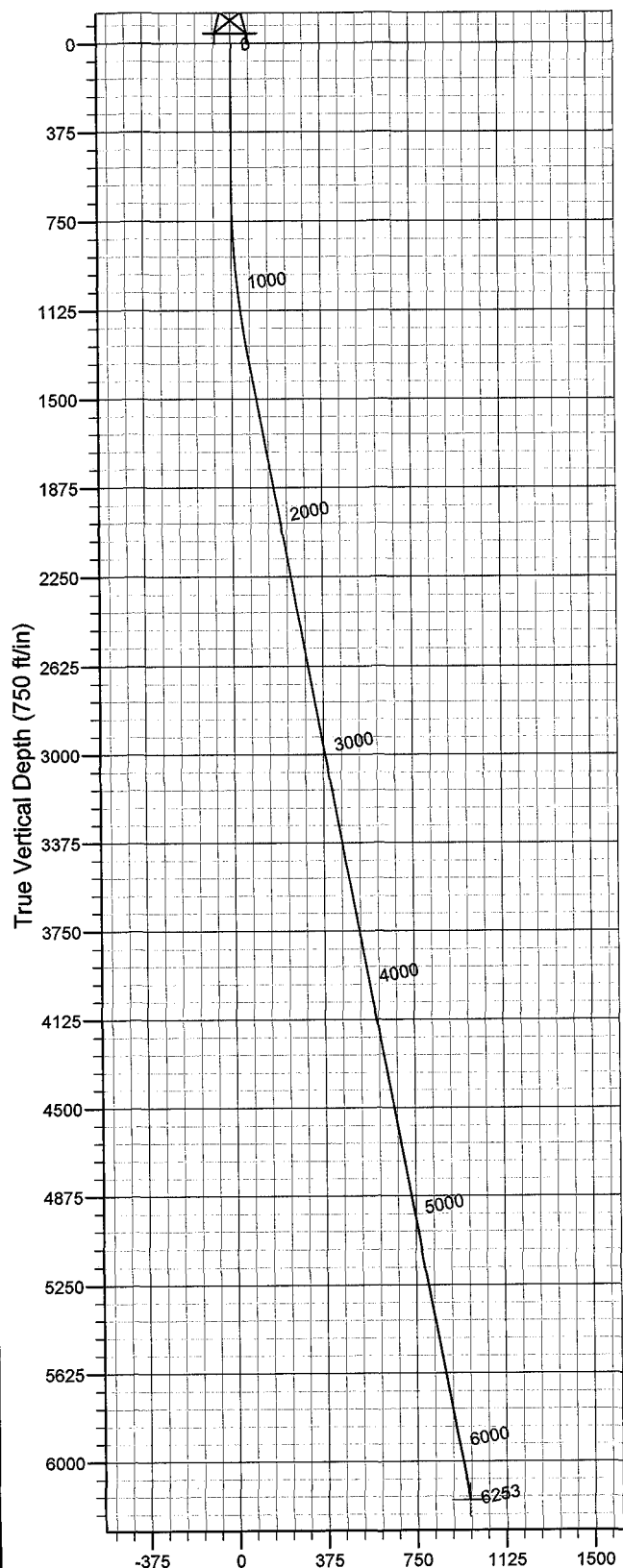


Azimuths to True North
Magnetic North: 11.72°

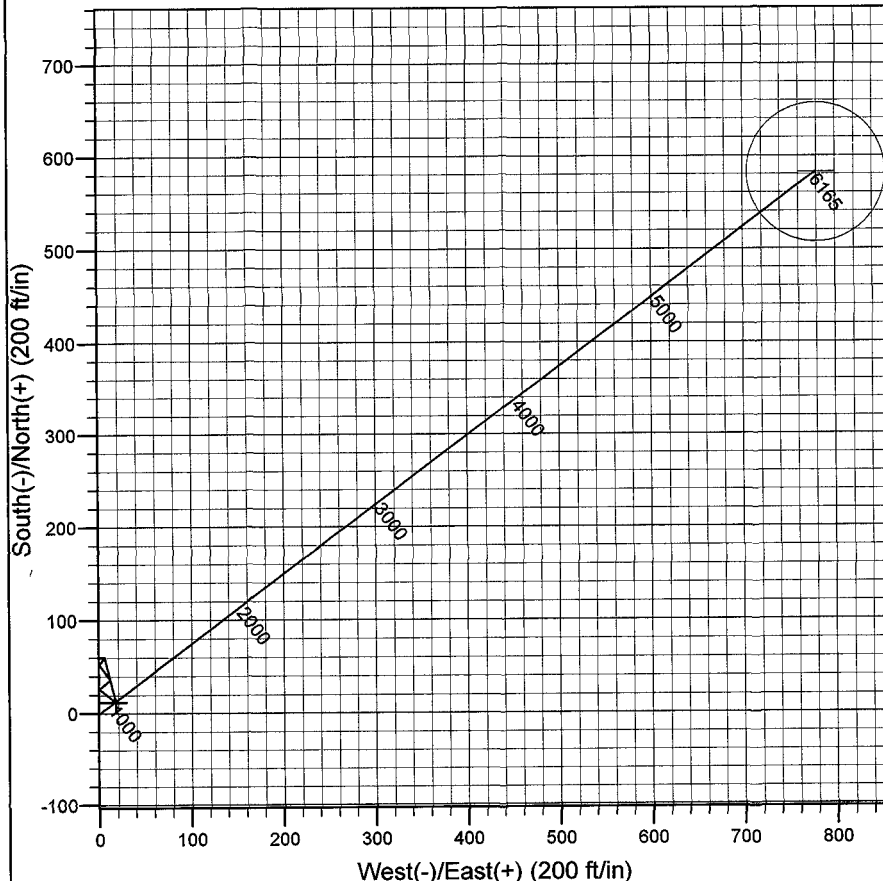
Magnetic Field
Strength: 52633.3snT
Dip Angle: 65.90°
Date: 2008-02-17
Model: IGRF2005-10

WELL DETAILS: Jonah Unit Q-5-9-17

GL 5245' & RKB 12' @ 5257.00ft (NDSI 2) 5245.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 7191847.12 2049625.61 40° 3' 15.340 N 110° 2' 16.960 W



Vertical Section at 53.23° (750 ft/in)



Plan: Plan #1 (Jonah Unit Q-5-9-17/OH)

Created By: Julie Cruse Date: 2008-02-17

PROJECT DETAILS: Duchesne County, UT NAD83 UTC

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone
Location:
System Datum: Mean Sea Level
Local North: True North

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
	31304.88	10.57	53.23	1300.89	38.82	51.95	1.50	53.23	64.85	
	46253.01	10.57	53.23	6165.00	582.32	779.26	0.00	0.00	972.80	JU Q-5-9-17 PBHL

Newfield Exploration Co.

Duchesne County, UT NAD83 UTC

Jonah Unit

Jonah Unit Q-5-9-17

OH

Plan: Plan #1

Standard Planning Report

17 February, 2008

Scientific Drilling

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Jonah Unit Q-5-9-17
 GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
 GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
 True
 Minimum Curvature

Project Duchesne County, UT NAD83 UTC

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Utah Central Zone

System Datum: Mean Sea Level

Site Jonah Unit,

Site Position: Northing: 7,195,384.71 ft Latitude: 40° 3' 51.060 N
From: Lat/Long Easting: 2,044,880.81 ft Longitude: 110° 3' 17.240 W
Position Uncertainty: 0.00 ft Slot Radius: in Grid Convergence: 0.93 °

Well Jonah Unit Q-5-9-17, 588' FSL 521' FWL Sec 5 T9S R17E

Well Position +N/-S 0.00 ft Northing: 7,191,847.12 ft Latitude: 40° 3' 15.340 N
 +E/-W 0.00 ft Easting: 2,049,625.61 ft Longitude: 110° 2' 16.960 W
Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 5,245.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	2008-02-17	11.72	65.90	52,633

Design Plan #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	53.23

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,304.88	10.57	53.23	1,300.89	38.82	51.95	1.50	1.50	0.00	53.23	
6,253.01	10.57	53.23	6,165.00	582.32	779.26	0.00	0.00	0.00	0.00	JU Q-5-9-17 PBHL

Scientific Drilling

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Jonah Unit Q-5-9-17
TVD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
MD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	53.23	699.99	0.78	1.05	1.31	1.50	1.50	0.00
800.00	3.00	53.23	799.91	3.13	4.19	5.23	1.50	1.50	0.00
900.00	4.50	53.23	899.69	7.05	9.43	11.77	1.50	1.50	0.00
1,000.00	6.00	53.23	999.27	12.53	16.76	20.92	1.50	1.50	0.00
1,100.00	7.50	53.23	1,098.57	19.56	26.18	32.68	1.50	1.50	0.00
1,200.00	9.00	53.23	1,197.54	28.15	37.67	47.03	1.50	1.50	0.00
1,300.00	10.50	53.23	1,296.09	38.29	51.24	63.96	1.50	1.50	0.00
1,304.88	10.57	53.23	1,300.89	38.82	51.95	64.85	1.50	1.50	0.00
1,400.00	10.57	53.23	1,394.39	49.27	65.93	82.31	0.00	0.00	0.00
1,500.00	10.57	53.23	1,492.69	60.25	80.63	100.66	0.00	0.00	0.00
1,600.00	10.57	53.23	1,591.00	71.24	95.33	119.01	0.00	0.00	0.00
1,700.00	10.57	53.23	1,689.30	82.22	110.03	137.36	0.00	0.00	0.00
1,800.00	10.57	53.23	1,787.60	93.21	124.73	155.70	0.00	0.00	0.00
1,900.00	10.57	53.23	1,885.90	104.19	139.43	174.05	0.00	0.00	0.00
2,000.00	10.57	53.23	1,984.20	115.17	154.12	192.40	0.00	0.00	0.00
2,100.00	10.57	53.23	2,082.51	126.16	168.82	210.75	0.00	0.00	0.00
2,200.00	10.57	53.23	2,180.81	137.14	183.52	229.10	0.00	0.00	0.00
2,300.00	10.57	53.23	2,279.11	148.13	198.22	247.45	0.00	0.00	0.00
2,400.00	10.57	53.23	2,377.41	159.11	212.92	265.80	0.00	0.00	0.00
2,500.00	10.57	53.23	2,475.71	170.09	227.62	284.15	0.00	0.00	0.00
2,600.00	10.57	53.23	2,574.02	181.08	242.32	302.50	0.00	0.00	0.00
2,700.00	10.57	53.23	2,672.32	192.06	257.01	320.85	0.00	0.00	0.00
2,800.00	10.57	53.23	2,770.62	203.05	271.71	339.20	0.00	0.00	0.00
2,900.00	10.57	53.23	2,868.92	214.03	286.41	357.55	0.00	0.00	0.00
3,000.00	10.57	53.23	2,967.22	225.01	301.11	375.90	0.00	0.00	0.00
3,100.00	10.57	53.23	3,065.53	236.00	315.81	394.25	0.00	0.00	0.00
3,200.00	10.57	53.23	3,163.83	246.98	330.51	412.59	0.00	0.00	0.00
3,300.00	10.57	53.23	3,262.13	257.97	345.21	430.94	0.00	0.00	0.00
3,400.00	10.57	53.23	3,360.43	268.95	359.90	449.29	0.00	0.00	0.00
3,500.00	10.57	53.23	3,458.74	279.93	374.60	467.64	0.00	0.00	0.00
3,600.00	10.57	53.23	3,557.04	290.92	389.30	485.99	0.00	0.00	0.00
3,700.00	10.57	53.23	3,655.34	301.90	404.00	504.34	0.00	0.00	0.00
3,800.00	10.57	53.23	3,753.64	312.88	418.70	522.69	0.00	0.00	0.00
3,900.00	10.57	53.23	3,851.94	323.87	433.40	541.04	0.00	0.00	0.00
4,000.00	10.57	53.23	3,950.25	334.85	448.10	559.39	0.00	0.00	0.00
4,100.00	10.57	53.23	4,048.55	345.84	462.79	577.74	0.00	0.00	0.00
4,200.00	10.57	53.23	4,146.85	356.82	477.49	596.09	0.00	0.00	0.00
4,300.00	10.57	53.23	4,245.15	367.80	492.19	614.44	0.00	0.00	0.00
4,400.00	10.57	53.23	4,343.45	378.79	506.89	632.79	0.00	0.00	0.00
4,500.00	10.57	53.23	4,441.76	389.77	521.59	651.14	0.00	0.00	0.00
4,600.00	10.57	53.23	4,540.06	400.76	536.29	669.48	0.00	0.00	0.00
4,700.00	10.57	53.23	4,638.36	411.74	550.99	687.83	0.00	0.00	0.00
4,800.00	10.57	53.23	4,736.66	422.72	565.68	706.18	0.00	0.00	0.00
4,900.00	10.57	53.23	4,834.96	433.71	580.38	724.53	0.00	0.00	0.00
5,000.00	10.57	53.23	4,933.27	444.69	595.08	742.88	0.00	0.00	0.00
5,100.00	10.57	53.23	5,031.57	455.68	609.78	761.23	0.00	0.00	0.00
5,200.00	10.57	53.23	5,129.87	466.66	624.48	779.58	0.00	0.00	0.00

Scientific Drilling

Planning Report

Database: EDM 2003.16 Multi-User Db
Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Jonah Unit Q-5-9-17
TVD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
MD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	10.57	53.23	5,228.17	477.64	639.18	797.93	0.00	0.00	0.00
5,400.00	10.57	53.23	5,326.48	488.63	653.88	816.28	0.00	0.00	0.00
5,500.00	10.57	53.23	5,424.78	499.61	668.57	834.63	0.00	0.00	0.00
5,600.00	10.57	53.23	5,523.08	510.60	683.27	852.98	0.00	0.00	0.00
5,700.00	10.57	53.23	5,621.38	521.58	697.97	871.33	0.00	0.00	0.00
5,800.00	10.57	53.23	5,719.68	532.56	712.67	889.68	0.00	0.00	0.00
5,900.00	10.57	53.23	5,817.99	543.55	727.37	908.03	0.00	0.00	0.00
6,000.00	10.57	53.23	5,916.29	554.53	742.07	926.37	0.00	0.00	0.00
6,100.00	10.57	53.23	6,014.59	565.52	756.77	944.72	0.00	0.00	0.00
6,200.00	10.57	53.23	6,112.89	576.50	771.47	963.07	0.00	0.00	0.00
6,253.01	10.57	53.23	6,165.00	582.32	779.26	972.80	0.00	0.00	0.00

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target - Shape									
JU Q-5-9-17 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,165.00	582.32	779.26	7,192,442.10	2,050,395.25	40° 3' 21.095 N	110° 2' 6.938 W

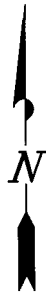
NEWFIELD PRODUCTION COMPANY

WELL PAD INTERFERENCE PLAT

JONAH UNIT Q-5-9-17 (Proposed Well)

JONAH UNIT 14-5J-9-17 (Existing Well)

Pad Location: SWSW Section 5, T9S, R17E, S.L.B.&M.



TOP HOLE FOOTAGES

Q-5-9-17 (PROPOSED)
588' FSL & 521' FWL

BOTTOM HOLE FOOTAGES

Q-5-9-17 (PROPOSED)
1170' FSL & 1300' FWL

Q-5-9-17 (PROPOSED)

14-5J-9-17 (EXISTING)

Edge of
Existing Pad

Pump
Jack

Future Pit

Existing
Tanks

Existing
Stock Pile

Existing Access

Existing Access

(To Bottom Hole)
N53°13'55"E - 972.80'

S55°53'44"W

RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
Q-5-9-17	582'	779'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
Q-5-9-17	40° 03' 15.34"	110° 02' 16.96"
14-5J-9-17	40° 03' 15.14"	110° 02' 17.01"

Note:

Bearings are based
on GLO Information.

SURVEYED BY: T.H.	DATE SURVEYED: 12-12-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-27-07
SCALE: 1" = 50'	REVISED: L.C.S. 02-11-08

Tri State
Land Surveying, Inc.

(435) 781-2501

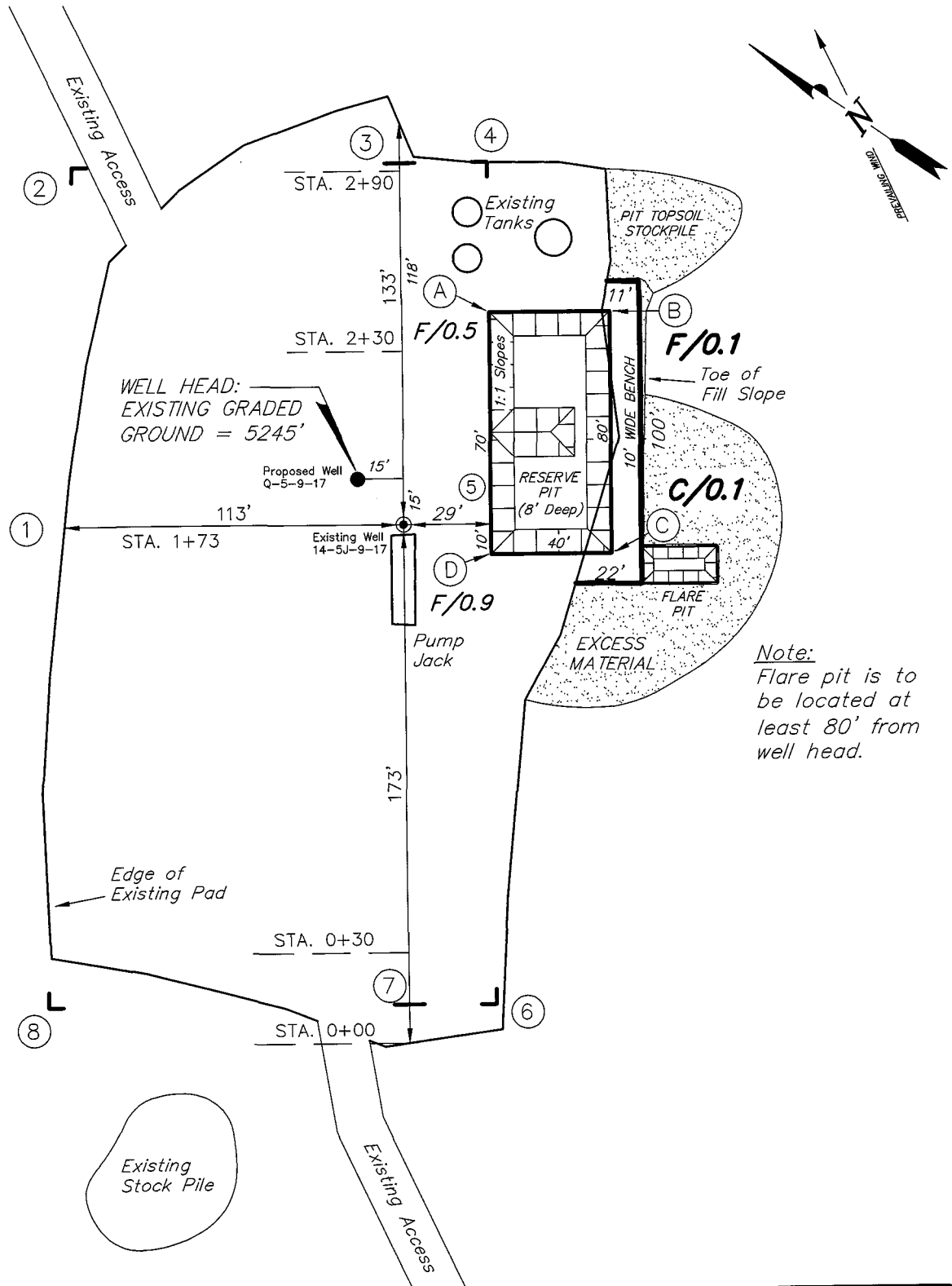
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

NEWFIELD PRODUCTION COMPANY

JONAH UNIT Q-5-9-17 (Proposed Well)

JONAH UNIT 14-5J-9-17 (Existing Well)

Pad Location: SWSW Section 5, T9S, R17E, S.L.B.&M.



Note:
Flare pit is to
be located at
least 80' from
well head.

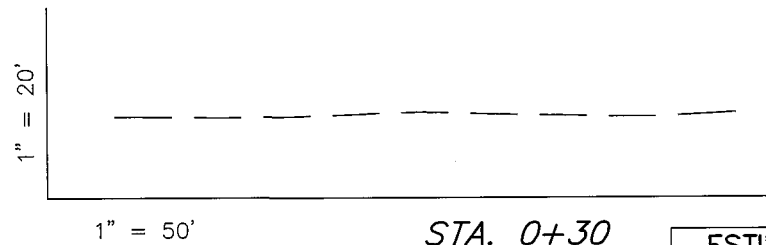
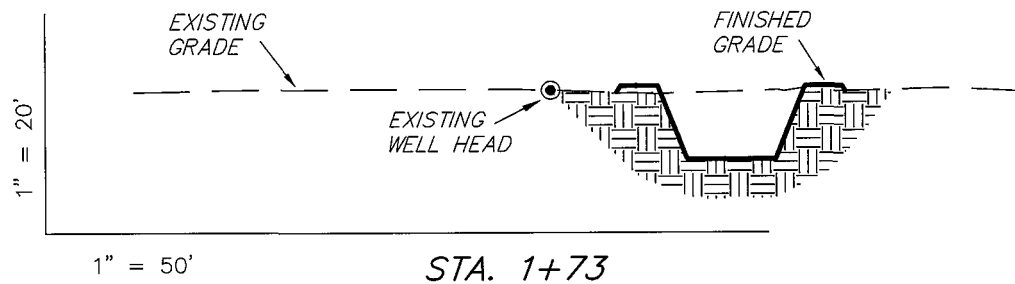
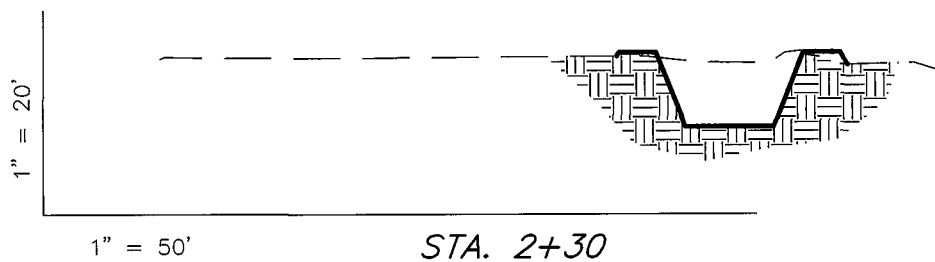
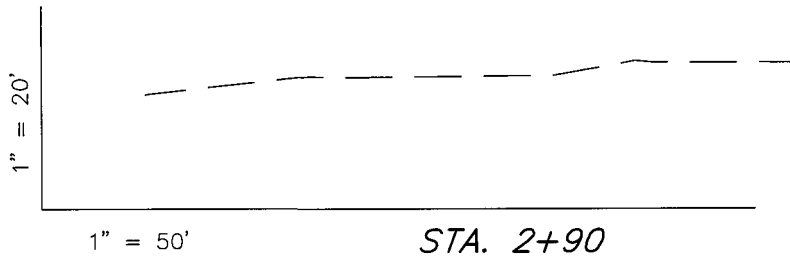
SURVEYED BY: T.H.	DATE SURVEYED: 12-12-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-27-07
SCALE: 1" = 50'	REVISED:

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

NEWFIELD PRODUCTION COMPANY

CROSS SECTIONS

JONAH UNIT Q-5-9-17 (Proposed Well)
JONAH UNIT 14-5J-9-17 (Existing Well)



NOTE:
UNLESS OTHERWISE
NOTED ALL CUT/FILL
SLOPES ARE AT 1.5:1

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	80	Topsoil is not included in Pad Cut	-80
PIT	550	0		550
TOTALS	550	80	120	470

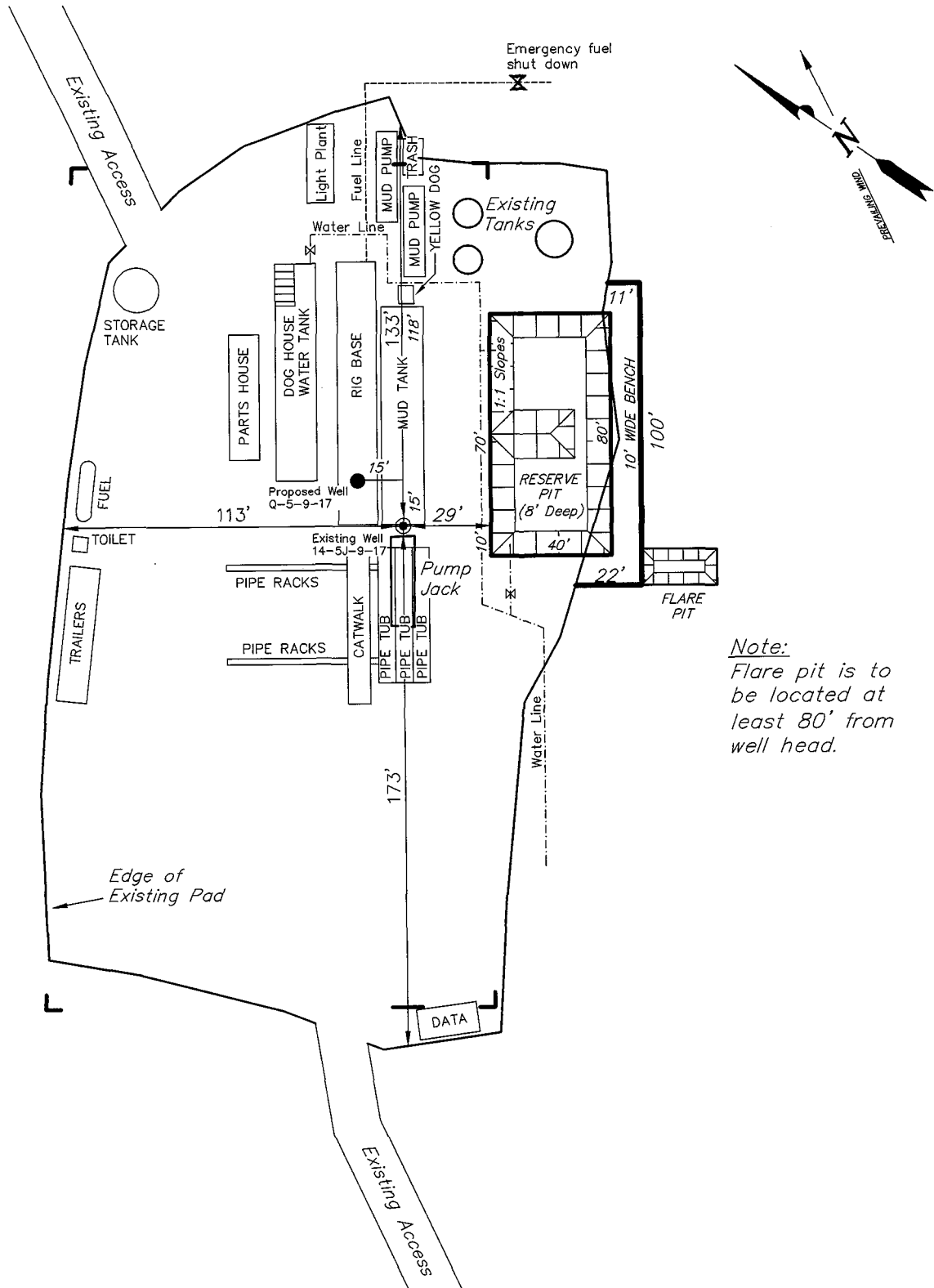
SURVEYED BY: T.H.	DATE SURVEYED: 12-12-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-27-07
SCALE: 1" = 50'	REVISED:

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

NEWFIELD PRODUCTION COMPANY

TYPICAL RIG LAYOUT

JONAH UNIT Q-5-9-17 (Proposed Well)
JONAH UNIT 14-5J-9-17 (Existing Well)



SURVEYED BY: T.H.	DATE SURVEYED: 12-12-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-27-07
SCALE: 1" = 50'	REVISED:

Tri State
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

Newfield Production Company Proposed Site Facility Diagram

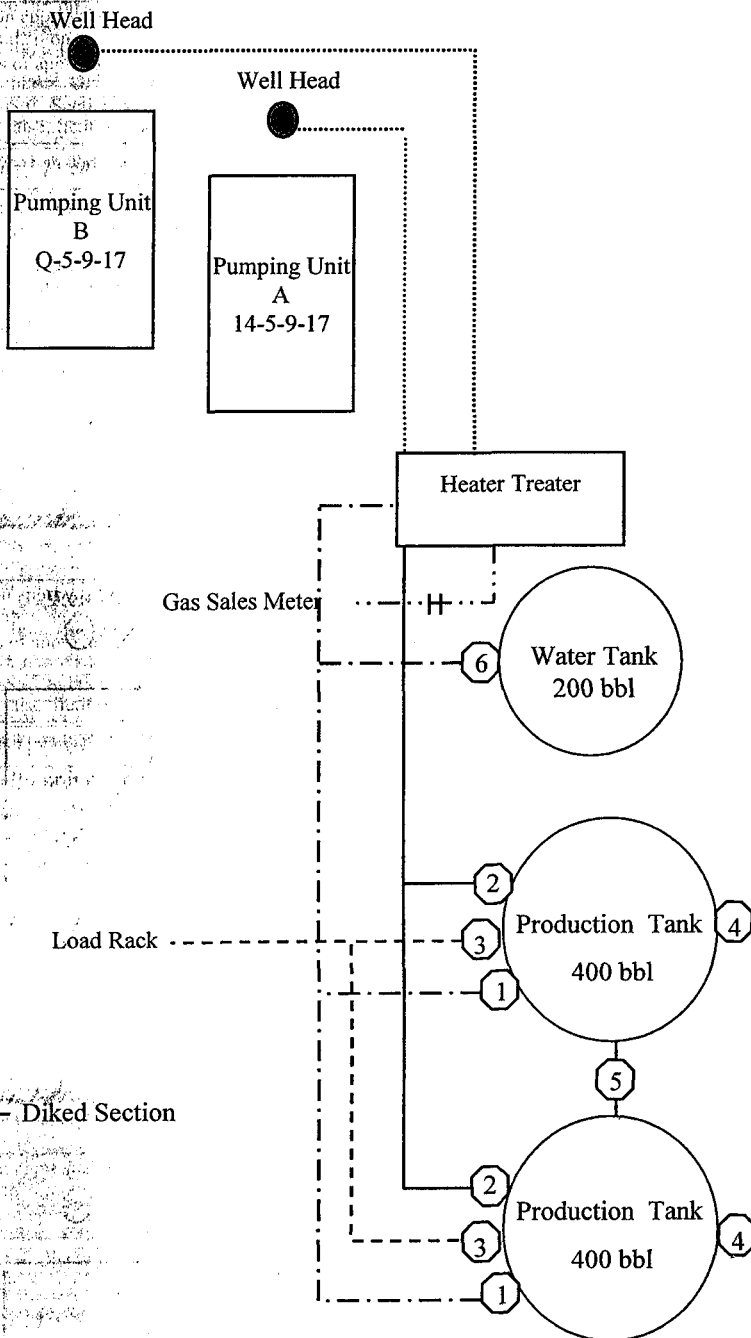
Jonah Federal Q-5-9-17

From the 14-5-9-17 Location

SW/SW Sec. 5 T9S, R17E

Duchesne County, Utah

UTU-020252



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

Sales Phase:

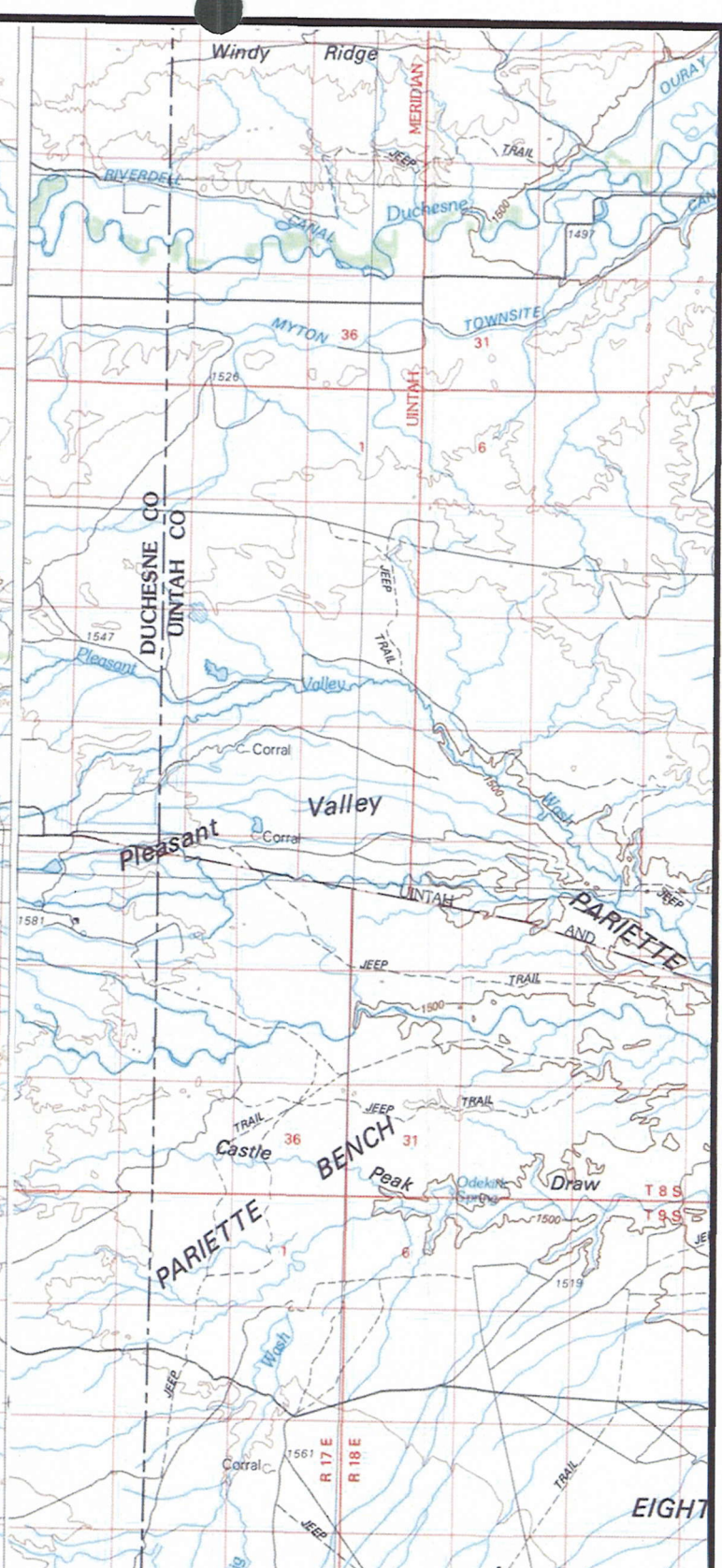
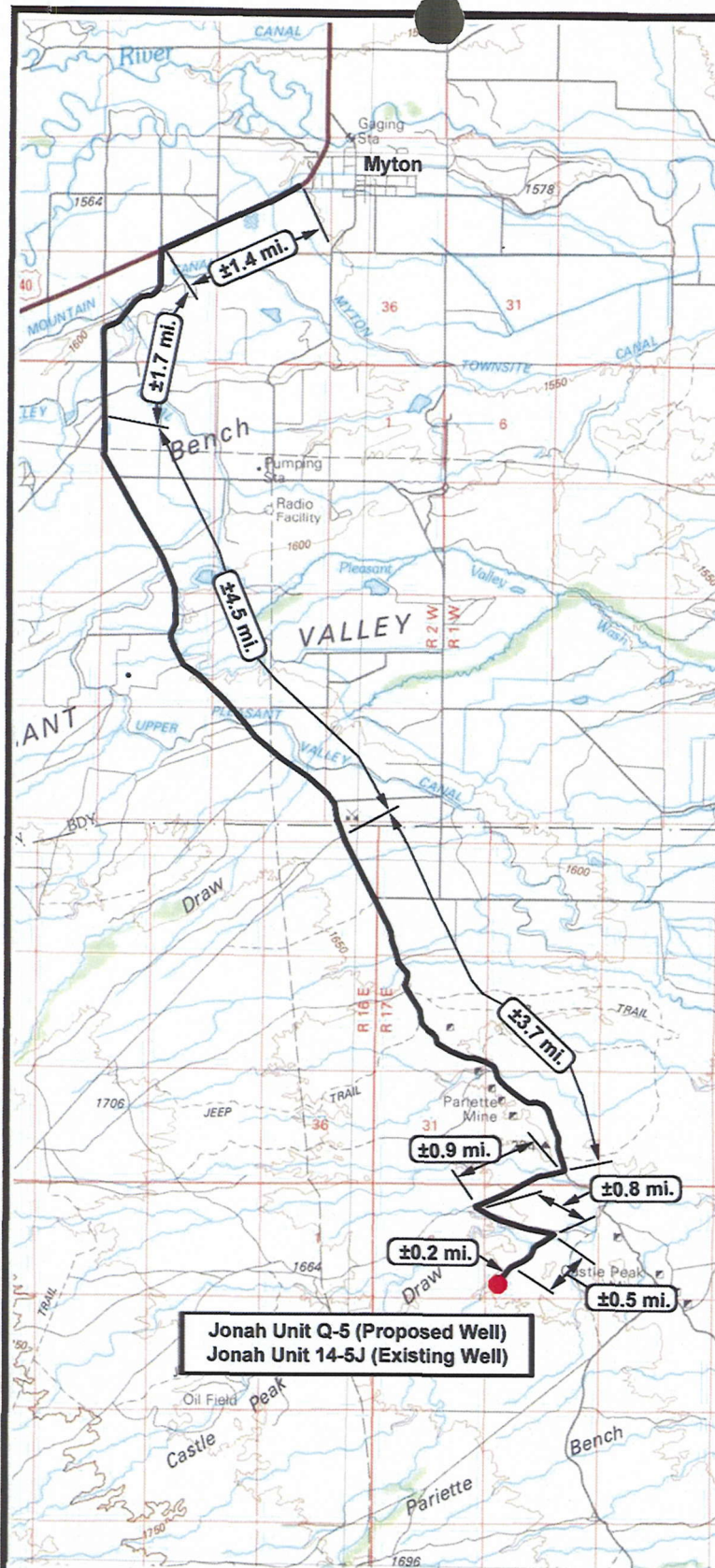
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

Draining Phase:

- 1) Valves 1 and 6 open

Legend

Emulsion Line
Load Rack	-----
Water Line	- - - - -
Gas Sales
Oil Line	—————



NEWFIELD
Exploration Company

Jonah Unit Q-5-9-17 (Proposed Well)
Jonah Unit 14-5J-9-17 (Existing Well)
Pad Location: SWSW SEC. 5, T9S, R17E, S.L.B.&M.



Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

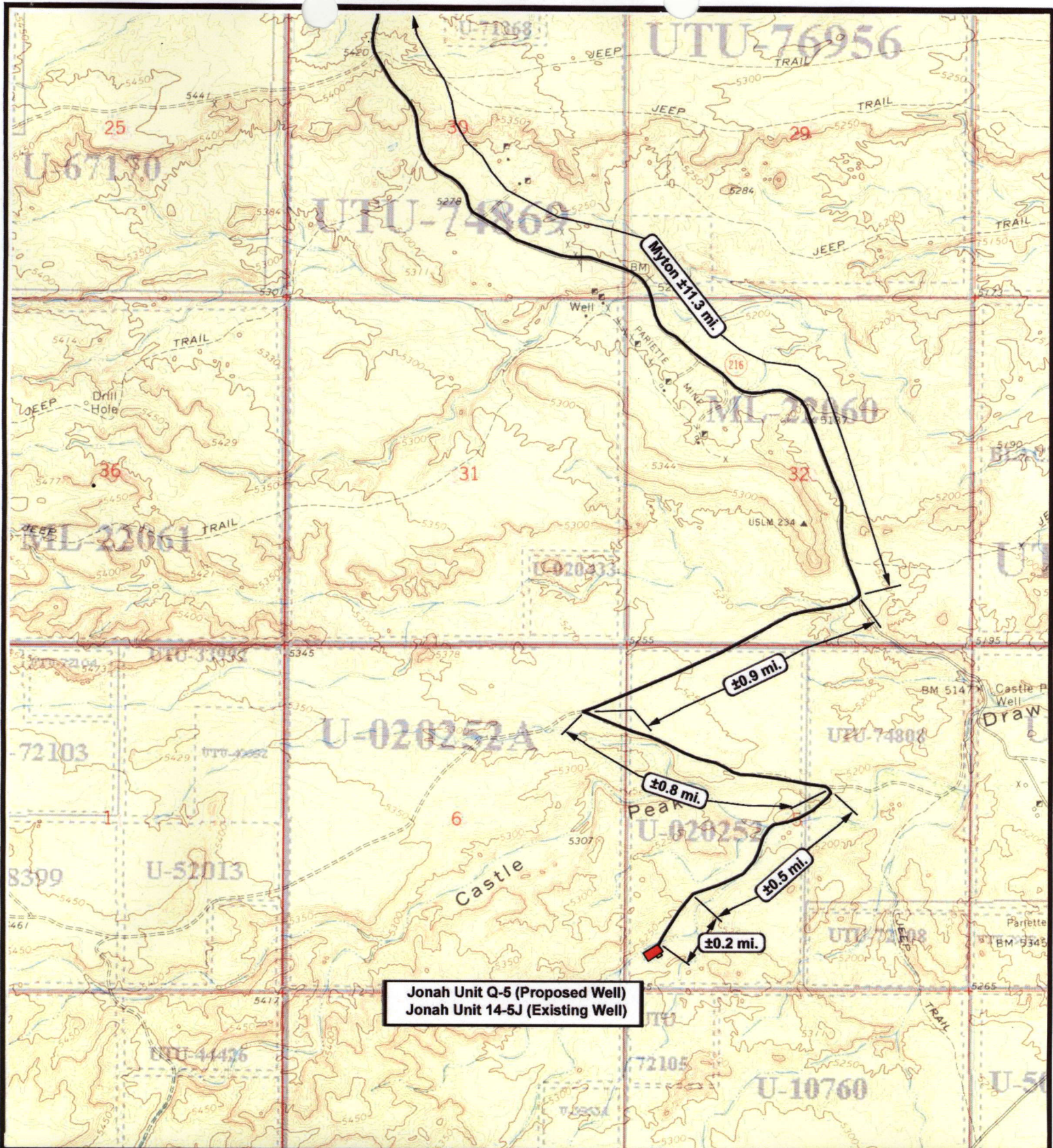
SCALE: 1 = 100,000
DRAWN BY: mw
DATE: 01-02-2008


Legend

Existing Road

TOPOGRAPHIC MAP

"A"





NEWFIELD
Exploration Company

Jonah Unit Q-5-9-17 (Proposed Well)
Jonah Unit 14-5J-9-17 (Existing Well)
 Pad Location: SWSW SEC. 5, T9S, R17E, S.L.B.&M.






Tri-State
Land Surveying Inc.
(435) 781-2501
180 North Vernal Ave. Vernal, Utah 84078

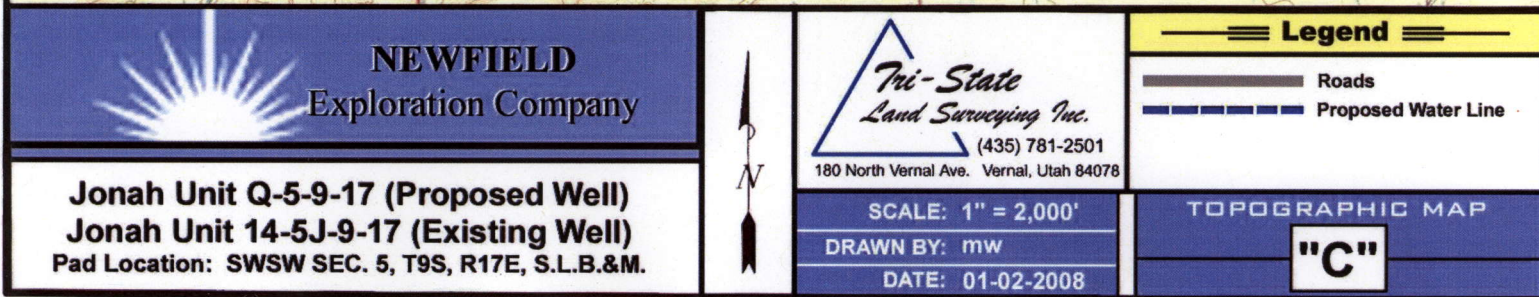
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 DRAWN BY: mw
 DATE: 01-02-2008

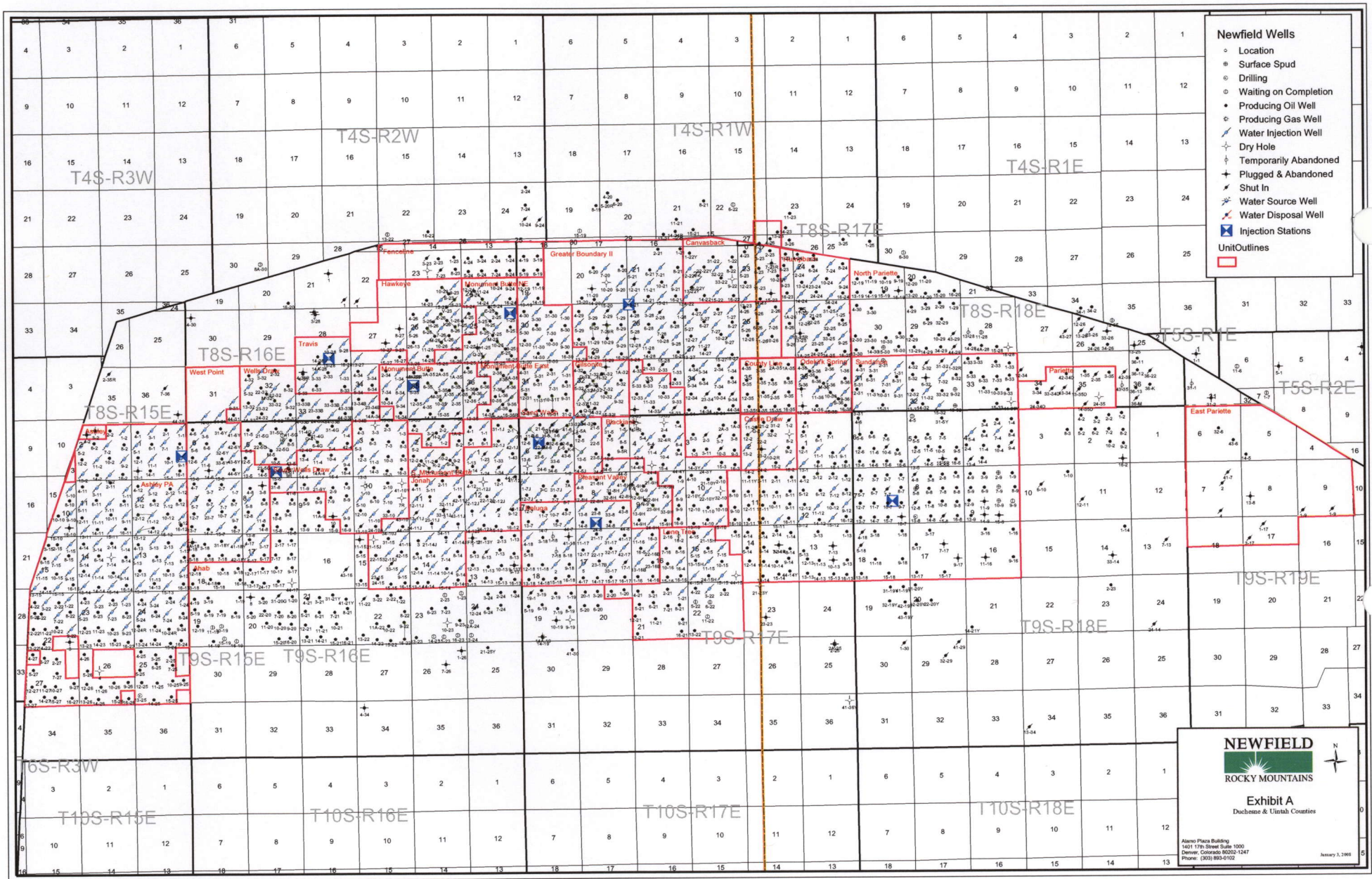
Legend

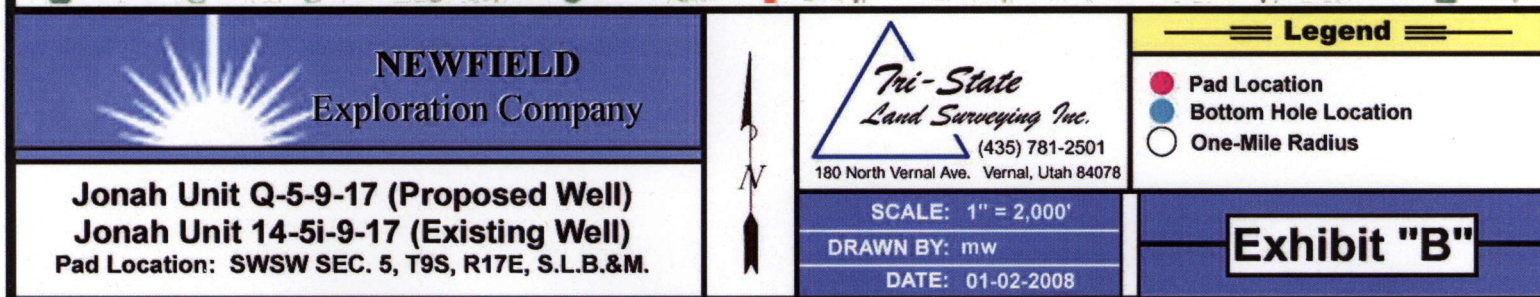
 Existing Road

TOPOGRAPHIC MAP

"B"







2-M SYSTEM

Blowout Prevention Equipment Systems

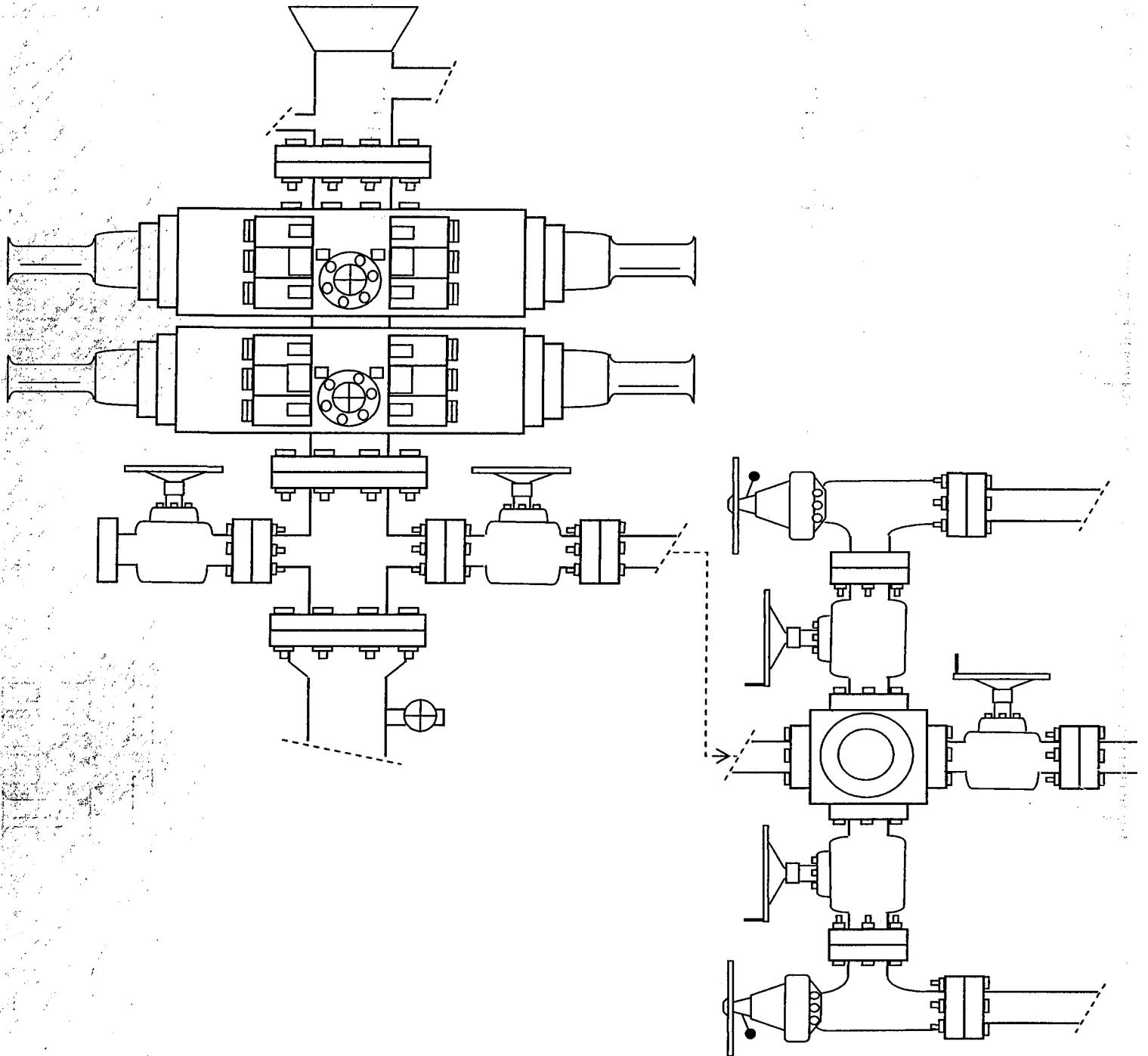


EXHIBIT C

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/06/2008

API NO. ASSIGNED: 43-013-33922

WELL NAME: JONAH FED Q-5-9-17

OPERATOR: NEWFIELD PRODUCTION (N2695)

PHONE NUMBER: 435-646-3721

CONTACT: MANDIE CROZIER

PROPOSED LOCATION:

SWSW 05 090S 170E

SURFACE: 0588 FSL 0521 FWL

BOTTOM: 1170 FSL 1300 FWL

COUNTY: DUCHESNE

LATITUDE: 40.05425 LONGITUDE: -110.0373

UTM SURF EASTINGS: 582115 NORTHINGS: 4434012

FIELD NAME: MONUMENT BUTTE (105)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-020252

PROPOSED FORMATION: GRRV

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB000493)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-10136)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

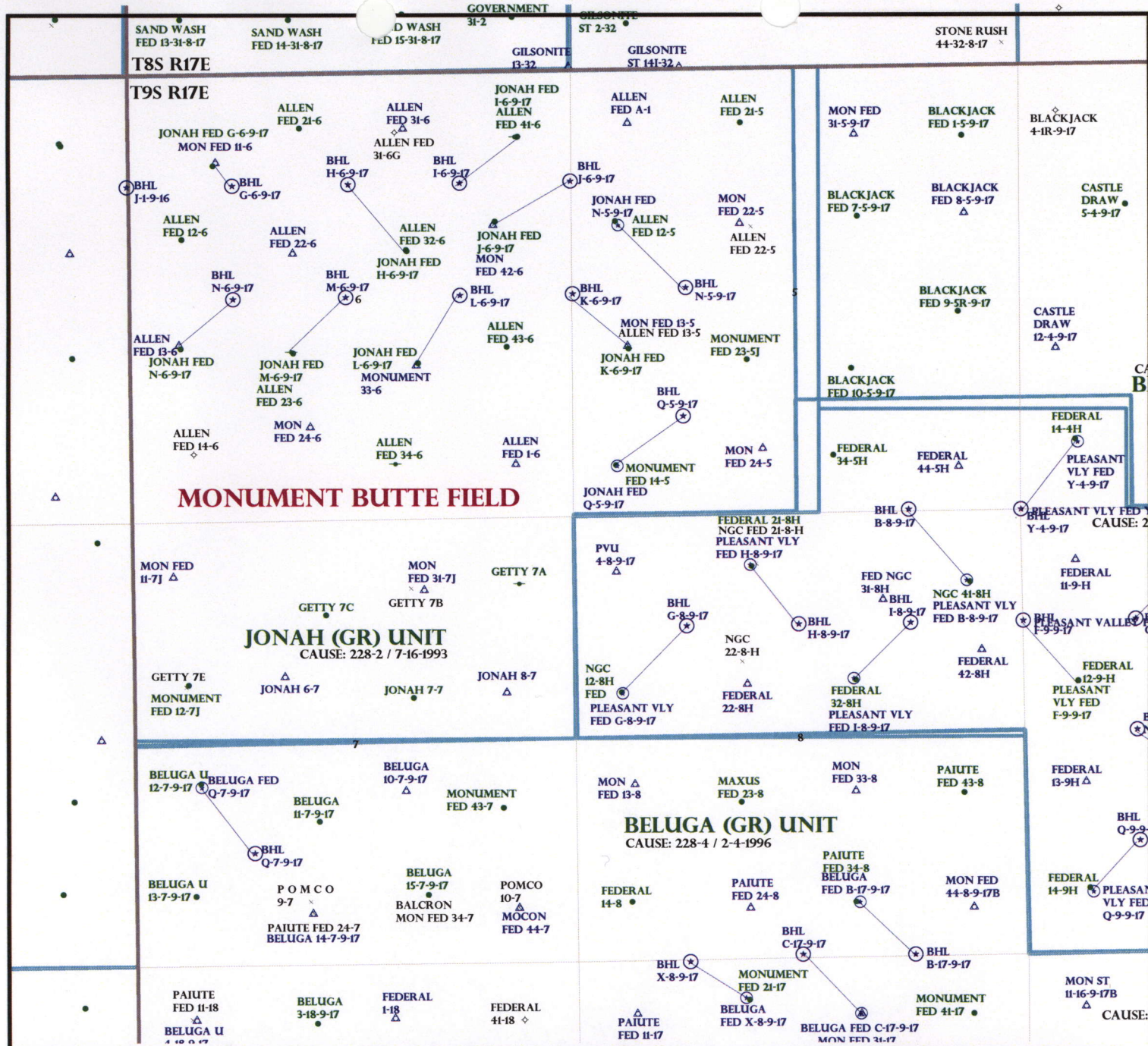
LOCATION AND SITING:

☐ R649-2-3.
Unit: JONAH (GRRV)
☐ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
☐ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 228-2
Eff Date: 7-16-1993
Siting: Does not Suspend General Siting
☒ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

1- Federal Approval



OPERATOR: NEWFIELD PROD CP (N2695)

SEC: 5 T.9S R.17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 228-2 / 7-16-1993

Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



PREPARED BY: DIANA MASON
DATE: 07-MARCH-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

March 7, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2007 Plan of Development Jonah Unit, Duchesne
County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Jonah Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
(Proposed PZ Green River)		
43-013-33922	Jonah Fed Q-5-9-17 Sec 5 T09S R17E 0588 FSL 0521 FWL	BHL Sec 5 T09S R17E 1170 FSL 1300 FWL
43-013-33923	Jonah Fed N-5-9-17 Sec 5 T09S R17E 1843 FNL 0551 FWL	BHL Sec 5 T09S R17E 2595 FNL 1340 FWL

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Jonah Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:3-7-08



March 11, 2008

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
PO Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
Jonah Federal Q-5-9-17
Jonah Unit
UTU-72086A
Surface Hole: T9S R17E, Section 5: SW/4SW/4
588' FSL 521' FWL
Bottom Hole: T9S R17E, Section 5:
1170' FSL 1300' FWL
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated February 29, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Jonah Federal Unit UTU-72086A. Newfield certifies that it is the Jonah Unit Operator and all lands within 460 feet of the entire directional well bore are within the Jonah Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at reveland@newfield.com. Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland
Land Associate

RECEIVED
MAR 14 2008
DIV. OF OIL, GAS & MINING

Form 3160-3
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No.

UTU-020252

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Jonah Unit

8. Lease Name and Well No.

Jonah Federal Q-5-9-17

9. API Well No.

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface SW/SW 588' FSL 521' FWL

At proposed prod. zone 1170' FSL 1300' FWL

10. Field and Pool, or Exploratory
Monument Butte

11. Sec., T., R., M., or Bk. and Survey or Area

Sec. 5, T9S R17E

14. Distance in miles and direction from nearest town or post office*

Approximately 13.7 miles southeast of Myton, Utah

12. County or Parish

Duchesne

13. State

UT

15. Distance from proposed*

location to nearest
property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 1170' file, 1170' f/unit

16. No. of Acres in lease

320.13

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

Approx. 1387'

19. Proposed Depth

6165'

20. BLM/BIA Bond No. on file

WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5245' GL

22. Approximate date work will start*

2nd Quarter 2008

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

2/29/08

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

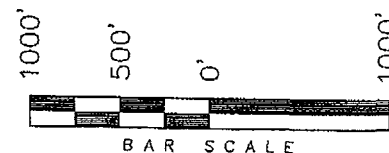
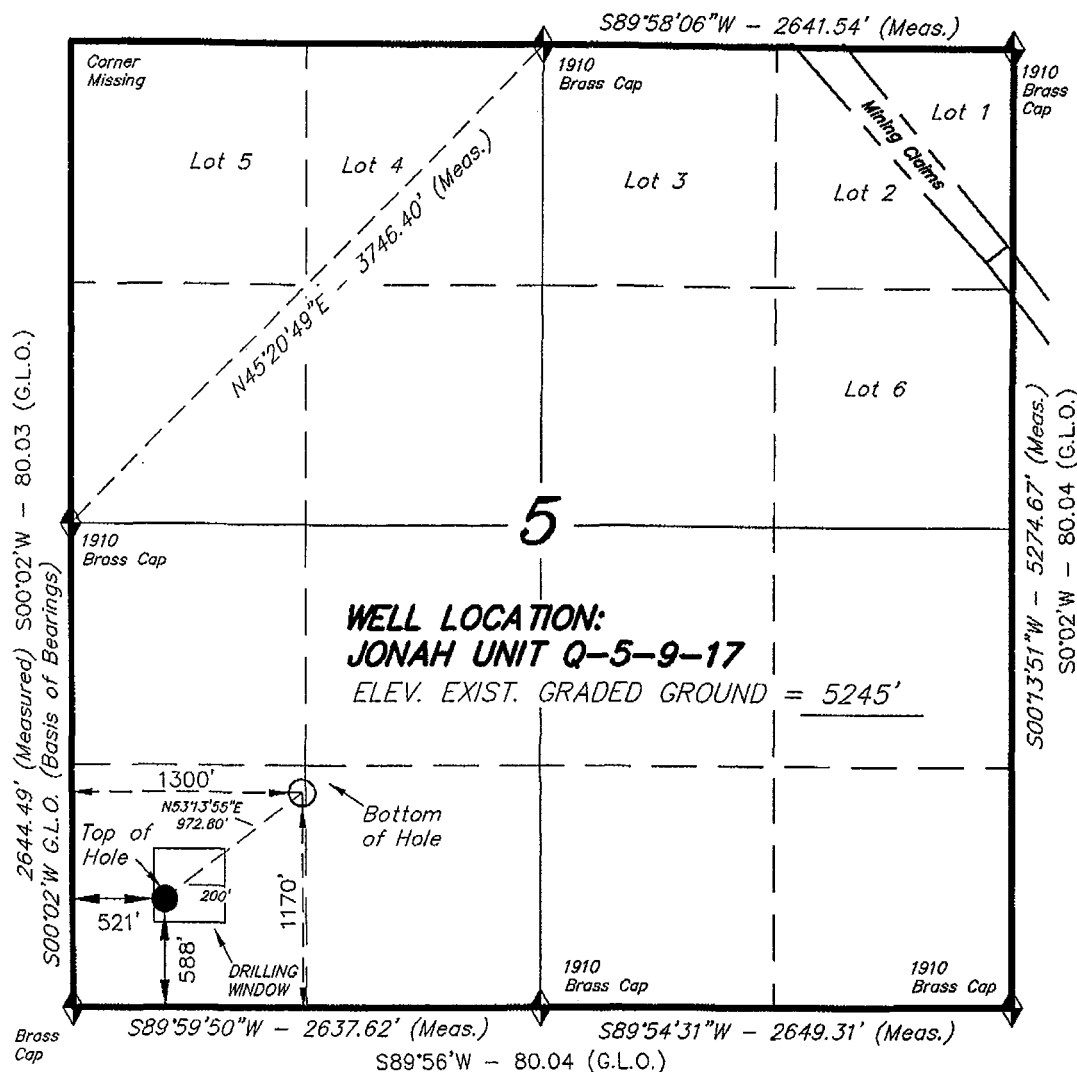
RECEIVED

MAR 14 2008

DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, JONAH UNIT Q-5-9-17,
LOCATED AS SHOWN IN THE SW 1/4 SW
1/4 OF SECTION 5, T9S, R17E, S.L.B.&M.
DUCHESE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION, AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF. No. 189377

STACY W.
STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 02037
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

(435) 781-2501

DATE SURVEYED:
12-12-07

SURVEYED BY: T.H.

DATE DRAWN:
12-27-07

DRAWN BY: F.T.M.

REVISED:
02-11-08 L.C.S.

SCALE: 1" = 1000'

 = SECTION CORNERS LOCATED

BASIS OF ELEV;
U.S.G.S. 7-1/2 min QUAD (MYTON SE)

JONAH UNIT Q-5-9-17
(Surface Location) NAD 83
LATITUDE = 40° 03' 15.34"
LONGITUDE = 110° 02' 16.96"



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

March 20, 2008

Newfield Production Company
Rt. #3, Box 3630
Myton, UT 84052

Re: Jonah Federal Q-5-9-17 Well, Surface Location 588' FSL, 521' FWL, SW SW, Sec. 5,
T. 9 South, R. 17 East, Bottom Location 1170' FSL, 1300' FWL, SW SW, Sec. 5,
T. 9 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33922.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal Office

Operator: Newfield Production Company
Well Name & Number Jonah Federal Q-5-9-17
API Number: 43-013-33922
Lease: UTU-020252

Surface Location: SW SW Sec. 5 T. 9 South R. 17 East
Bottom Location: SW SW Sec. 5 T. 9 South R. 17 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Form 3160-3
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5. Lease Serial No.

UTU-020252

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

Jonah Unit

8. Lease Name and Well No.

Jonah Federal Q-5-9-17

9. API Well No.

43-013-33922

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

Sec. 5, T9S R17E

1a. Type of Work: ☒ DRILL

☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface SW/4 SW 588' FSL 521' FWL

At proposed prod. zone 1170' FSL 1300' FWL

14. Distance in miles and direction from nearest town or post office*

Approximately 13.7 miles southeast of Myton, Utah

12. County or Parish

Duchesne

13. State

UT

15. Distance from proposed*

location to nearest
property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 1170' f/lse, 1170' f/unit

16. No. of Acres in lease

320.13

17. Spacing Unit dedicated to this well

20 Acres

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

Approx. 1387'

19. Proposed Depth

6165'

20. BLM/BIA Bond No. on file

WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5245' GL

22. Approximate date work will start*

2nd Quarter 2008

23. Estimated duration

Approximately seven (7) days from spud to rig release.

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Name (Printed/Typed)

Mandie Crozier

Date

2/29/08

Title

Regulatory Specialist

Approved by (Signature)

Name (Printed/Typed)

JEFF KAWICKA

Date

7-29-2008

Title

Assistant Field Manager

Office

VERNAL FIELD OFFICE

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct
operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

RECEIVED

SEP 16 2008

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Newfield Production Company
Well No: Jonah Federal Q-5-9-17
API No: 43-013-33922

Location: SWNW, Sec. 5, T9S, R17E
Lease No: UTU-020252
Agreement: Jonah Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

SITE SPECIFIC CONDITIONS OF APPROVAL

STIPULATIONS:

None

Lease Notices from RMP:

- The lessee/operator is given notice the area has been identified as containing Golden eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden eagle and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.
- The lessee/operator is given notice the area has been identified as containing Ferruginous hawk habitat. Modifications may be required in the Surface Use Plan to protect the Ferruginous hawk and/or its habitat from surface disturbance activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

Comments:

- GIS data shows the project area is within Mountain plover nesting habitat. Because the proposed location is going to be directional drilled from an existing location and no new disturbance will be required Mountain plover timing restrictions were not applied.
- During the onsite it was evident that scattered complexes of White-tailed prairie dog colonies (Burrowing owl nesting habitat) were in the area. Because the proposed location is going to be directional drilled from an existing location and minimal disturbance is taking place Burrowing owl timing restrictions were not applied.

Follow-up Actions and/or Recommendations:

Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) should require additional surveys and clearances.

CONDITIONS OF APPROVAL:

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.

- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- **Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.**

Interim Reclamation:

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be **seeded using a rangeland drill**. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain.

Seeding shall occur in the fall (August 1st until snow or ground is frozen) with the following seed mix:

Seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	¼ - ½"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	⅛ - ¼"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

Final reclamation:

- Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought up and into the surface.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface.
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: JONAH FED Q-5-9-17

Api No: 43-013-33922 Lease Type: FEDERAL

Section 05 Township 09S Range 17E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 24

SPUDDED:

Date 09/26/08

Time 3:30 PM

How DRY

Drilling will Commence: _____

Reported by SEAN STEVENS

Telephone # (435) 823-1162

Date 09/29//08 Signed CHD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SWNW Section 5 T9S R17E

5. Lease Serial No.

USA UTU-020252-A

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
JONAH UNIT

8. Well Name and No.

JONAH Q-5-9-17

9. API Well No.

4301333922

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice	
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 9/26/08 MIRU Ross # 24. Spud well @ 8:00 AM. Drill 330' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 332.99 KB. On 9/29/08 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 6 bbls cement to pit. WOC.

RECEIVED

OCT 06 2008

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Ryan Crum

Signature

Title

Drilling Foreman

Date

09/30/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 332.99

LAST CASING 8 5/8" SET AT 331.64'
 DATUM 12' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 330' LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company
 WELL Jonah Fed Q-5-9-17
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Ross # 24

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 40.13'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	321.14
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.			FEET	JTS	TOTAL LENGTH OF STRING		322.99
TOTAL LENGTH OF STRING			322.99	7	LESS CUT OFF PIECE		2
LESS NON CSG. ITEMS			1.85		PLUS DATUM TO T/CUT OFF CSG		12
PLUS FULL JTS. LEFT OUT			0		CASING SET DEPTH		332.99
TOTAL			321.14	7	} COMPARE		
TOTAL CSG. DEL. (W/O THRDS)			321.14	7			
TIMING			1ST STAGE				
BEGIN RUN CSG. Spud			9/26/2008	8:00 AM	GOOD CIRC THRU JOB <u>YES</u>		
CSG. IN HOLE			9/27/2008	10:00 AM	Bbls CMT CIRC TO SURFACE <u>6</u>		
BEGIN CIRC			9/29/2008	8:23 AM	RECIPROCATED PIPE FOR <u>N/A</u>		
BEGIN PUMP CMT			9/29/2008	8:35 AM			
BEGIN DSPL. CMT			9/29/2008	8:43 AM	BUMPED PLUG TO <u>460</u> PSI		
PLUG DOWN			9/29/2008	8:45 AM			
CEMENT USED		CEMENT COMPANY- B. J.					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT				SHOW MAKE & SPACING			
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Ryan Crum DATE 9/30/2008

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					Q1	SC	TP	RG			
A	99999	17136	4301333946	UTE TRIBAL 16-19-4-2	SESE	19	4S	2W	DUCHESNE	9/30/2008	10/27/08
WELL 1 COMMENTS: <i>GRU</i>											
A	99999	17137	4301333771	FEDERAL 4-30-9-17	NWNW	30	9S	17E	DUCHESNE	9/25/2008	10/27/08
WELL 2 COMMENTS: <i>GRU</i>											
A	99999	17138	4304740379	FEDERAL 2A-29-9-18	NWNE	29	9S	18E	UINTAH	9/29/2008	10/27/08
WELL 3 COMMENTS: <i>GRU</i> <i>Rigskid from 4304739632</i>											
B	99999	11492	4301333922	JONAH FEDERAL Q-5-9-17	SWSW	5	9S	17E	DUCHESNE	9/26/2008	10/27/08
WELL 4 COMMENTS: <i>GRU</i> <i>BHL = SWSW</i>											
A	99999	17138	4304739632	FEDERAL 2-29-9-18	NWNE	29	9S	18E	UINTAH	9/27/2008	10/27/08
WELL 5 COMMENTS: <i>GRU</i> <i>plugged 9/27/2008</i>											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - new entry for new well (plug to well only)
- B - well to existing entry (group or unit well)
- C - from one existing entry to another existing entry
- D - well from one existing entry to a new entry
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Jentri Park
Signature
JENTRI PARK
Production Clerk
10/03/08
Date

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DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SWNW Section 5 T9S R17E

5. Lease Serial No.

USA UTU-020252-A

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

JONAH UNIT

8. Well Name and No.

JONAH Q-5-9-17

9. API Well No.

4301333922

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 10-3-08 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 292'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6160'. Lay down drill string & BHA. PU & TIH with Guide shoe, shoe jt, float collar, 163 jt's of 5.5 J-55, 15.5# csgn. Set @ 6158' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 450 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 50 bbls of 50 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 100,000 #s tension. Release rig @ 5:30 AM on 10/11/08.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Ryan Crum

Signature

Title

Drilling Foreman

Date

10/11/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

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DIV. OF OIL, GAS & MINING

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET @ 6158.6

LAST CASING: 8-5/8" SET @ 331.64
 DATUM (KB) 12
 DATUM TO CUT OFF CASING 12
 DATUM TO BRADENHEAD FLANGE 12
 DRILLER TD 6160 LOGGER TD
 HOLE SIZE 7-7/8" TOP FLOAT COLLAR @ 6120.92
 TOP SHORT JT @ 4005.23

OPERATOR: Newfield Production Company
 WELL: Jonah Fed Q-5-9-17
 FIELD/PROSPECT: Monument Butte
 CONTRACTOR & RIG #: NDSI # 2

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1		Landing Jt	15.5#	J-55	8rd	A	14
162	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	6108.92
1	5 1/2"	FLOAT COLLAR	-	-	-	A	0.6
1	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	36.43
1	5 1/2"	GUIDE SHOE					0.65

TOTAL LENGTH OF STRING	6160.6
(-) LANDING JT	14
(-) AMOUNT CUTOFF	0
(+) KB ELEVATION	12
CASING SET DEPTH	6158.6

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	6160.6	163
LESS NON CSG. ITEMS	15.25	-
PLUS FULL JTS. LEFT OUT	194.25	5
TOTAL	6339.6	168
TOTAL CSG. DEL. (W/O THRS)	6339.60	168

COMPARE (SHOULD BE EQUAL)

CEMENT DATA		TIME	DATE
BEGIN RUN CSG.		6:00 PM	10/10/2008
CSG. IN HOLE		11:00 PM	10/10/2008
BEGIN CIRC		11:30 PM	10/10/2008
BEGIN PUMP CMT		1:37 AM	10/11/2008
BEGIN DSPL. CMT		2:45 AM	10/11/2008
PLUG DOWN		3:20 AM	10/11/2008

GOOD CIRC THRU JOB: yes
 Bbls CMT CIRC TO SURFACE: 50
 RECIPROCATED PIPE: No
 DID BACK PRES. VALVE HOLD ? yes
 BUMPED PLUG TO: 2200 PSI

CEMENT USED

CEMENT USED		
CEMENT COMPANY:		BJ
STAGE	# SX	CEMENT TYPE & ADDITIVES
1 (lead)	300	Premium Lite II cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5 lbs/sack Cello
		Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate
		+ 5 lbs/sack CSE-2 + 204.7% Fresh Water
2 (tail)	450	(50:50) Poz (Fly Ash): Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5%
		bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium
		Metasilicate + 54.7% Fresh Water

CENTRALIZER & SCRATCHER PLACEMENT (SHOW MAKE & SPACING)

Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-020252-A
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: JONAH UNIT
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: JONAH FEDERAL Q-5-9-17
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: JONAH FEDERAL Q-5-9-17
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 5, T9S, R17E		9. API NUMBER: 4301333922
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 01/09/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 12/04/08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk
SIGNATURE DATE 01/09/2009

(This space for State use only)

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JAN 14 2009
DIV. OF OIL, GAS & MINING

Daily Activity Report

Format For Sundry

JONAH Q-5-9-17

9/1/2008 To 1/30/2009

10/23/2008 Day: 1

Completion

Rigless on 10/22/2008 - Install 3M production tbg head. RU Baker Atlas WLT and run Reservoir Performance Monitor log f/ WLTD @ 6088' -2472'. RDWLT & SIFN. Est 146 BWTR.

11/5/2008 Day: 2

Completion

Rigless on 11/4/2008 - Day 2a Stage #1 CP1 sds. Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6088' & cement top @ 0'. Perforate stage #1, CP1 sds @ 5626-46' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 80 shots. RU BJ Services. 27 psi on well. Frac CP1 sds w/ 55,787#'s of 20/40 sand in 504 bbls of Lightning 17 fluid. Broke @ 3176 psi. Treated w/ ave pressure of 2591 psi w/ ave rate of 23.2 BPM. ISIP 2856 psi. Leave pressure on well. 650 BWTR. See day 2b. Day 2b, Stage #2 A1 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 31' perf gun. Set plug @ 5280'. Perforate A1 sds @ 5176-5207' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 124 shots. SWIFN.

11/6/2008 Day: 3

Completion

Rigless on 11/5/2008 - Day 2b, Stage #2 A1 sds. RU BJ Services. 1844 psi on well. Frac A1 sds w/ 65,318#'s of 20/40 sand in 556 bbls of Lightning 17 fluid. Broke @ 1929 psi. Treated w/ ave pressure of 2014 psi w/ ave rate of 23.2 BPM. ISIP 2566 psi. Leave pressure on well. 1206 BWTR. See day 3b. Day 3b, Stage #3 D3/C sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 13', 15' perf guns. Set plug @ 5000'. Perforate D3 sds @ 4850-63' & C sds @ 4900-15' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 112 shots. RU BJ Services. 2110 psi on well. Frac D3/C sds w/ 58,733#'s of 20/40 sand in 507 bbls of Lightning 17 fluid. Broke @ 2995 psi. Treated w/ ave pressure of 1885 psi w/ ave rate of 23.2 BPM. ISIP 2737 psi. Leave pressure on well. 1713 BWTR. See day 3c. Day 3c, Stage #4 GB4/GB6 sds. RU Phoenix Surverys inc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8', 24' perf guns. Set plug @ 4400'. Perforate GB4 sds @ 4190-98' & GB6 sds @ 4270-94' w/ 3-1/8" Slick Guns (.39"EH, 19 gram, 120°) w/ 4 spf for total of 128 shots. RU BJ Services. 1205 psi on well. Frac GB4/GB6 sds w/ 75,327#'s of 20/40 sand in 569 bbls of Lightning 17 fluid. Broke @ 1820 psi. Treated w/ ave pressure of 1572 psi w/ ave rate of 23.4 BPM. ISIP 2030 psi. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 7 hrs. & turned to oil. Recovered 1008 bbls. SWIFN.

11/7/2008 Day: 4

Completion

Western #1 on 11/6/2008 - MIRU Perforators WLT, mast & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite solid kill plug. Set plug @ 4150'. RD WL. MIRU Western rig #1. Talley, PU & RIH w/ 4 3/4" chomp bit, bit sub & 2 7/8" J-55 tbg. Tagged kill plug @ 4150'. Circulate well clean. RU Nabors power swivel. SIWFN w/ 1274 BWTR.

11/8/2008 Day: 5**Completion**

Western #1 on 11/7/2008 - Bleed off well. Circulate well. DU CBP @ 30 min. Well started flowing. Circulate well to kill well. Cont. RIH w/ tbg. Tag CBP @ 4400'. DU CBP in 36 min. Cont. RIH w/ tbg. Tag CBP @ 5000'. DU CBP in 39 min. Cont. RIH w/ tbg. Tag CBP @ 5280'. DU CBP in 20 min. Circulate well clean. SWIFN.

11/11/2008 Day: 6**Completion**

Western #1 on 11/10/2008 - Bleed off well. Circulate well dead. RIH w/ tbg. Tag sand @ 5723'. C/O to PBTD @ 6121'. Circulate well clean. Pull up to 6062'. RIH w/ swab. SFL @ surface. Made 5 runs. Recovered 79 bbls. Well started flowing. Recovered 80 bbls. 10% oil. No show of sand. RD swab. Circulate well dead. RIH w/ tbg. Tag PBTD @ 6121'. POOH w/ 54 jts 2 7/8" tbg. Well started flowing. Circulate well dead. RIH w/ 54 jts. Get ready for brine water. SWIFN.

11/12/2008 Day: 7**Completion**

Western #1 on 11/11/2008 - Bleed off well. Kill well w/ 180 bbls 10# brine water. POOH w/ 20 jts 2 7/8" tbg. Well started flowing again. RIH w/ 20 jts 2 7/8" tbg. Pump 30 bbls 10# brine water down tbg. ND stripping rubber. Land tbg. on BOP w/ B2 adapter flange. Plumb well into flowline. RD Western #1. Turn well over to pumper.

12/4/2008 Day: 8**Completion**

Western #1 on 12/3/2008 - MIRU Western #1. Circulate well w/ 200 bbls 10# brine water. ND flowback lines. POOH w/ tbg. LD BHA. RIH 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg, 5 1/2" TAC, 181 jts 2 7/8" tbg. ND BOP. Set TAC @ 5610' w/ 16,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. SWIFN.

12/5/2008 Day: 9**Completion**

Western #1 on 12/4/2008 - RIH w/ CDI 2 1/2" x 1 3/4" x 24' x 24.5' RHAC rod pump, shear coupler, 4- 1 1/2" weight bars, 221- 7/8" guided rods, 1- 2', 8' x 7/8" pony subs, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 4:00 p.m. 5 spm, 122" stroke. Final Report.

Pertinent Files: Go to File List

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

2. Name of Operator
NEWFIELD EXPLORATION COMPANY

3. Address
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code)
(435)646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 588' FSL & 521' FWL (SW/SW) SEC. 5, T9S, R17E

At top prod. interval reported below

At total depth 6465' 1266 fsl 1438 fwl per HSM review

14. Date Spudded
10/03/2008

15. Date T.D. Reached
10/09/2008

16. Date Completed 11/11/2008
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.
UTU-020252-A

6. If Indian, Allottee or Tribe Name
NA

7. Unit or CA Agreement Name and No.
JONAH UNIT

8. Lease Name and Well No.
JONAH FEDERAL Q-5-9-17

9. AFI Well No.
43-013-33922

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and
Survey or Area SEC. 5, T9S, R17E

12. County or Parish

13. State

DUCHESNE

UT

17. Elevations (DF, RKB, RT, GL)*
5245' GL 5257' KB

18. Total Depth: MD 6165'
TVD 6100'

19. Plug Back T.D.: MD 6121'
TVD 5998

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		333'		160 CLASS G		0'	
7-7/8"	5-1/2" J-55	15.5#		6159'		300 PRIMLITE			
						450 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5700'	TA @						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GRRV			(CP1) 5626-46'	.49"	4	80
B) per operator			(A1) 5176-5207'	.49"	4	124
C)			(D3) 4850-63', (C) 4900-15'	.49"	4	112
D)			(GB6) 4270-94, (GB4) 4190-9	.49"	4	128

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5626-5646'	Frac w/ 55787# of 20/40 sand 504 bbls fluid
5176-5207'	Frac w/ 65381# 20/40 sand 556 bbls fluid
4850-4915'	Frac w/ 58733# 20/40 sand 507 bbls fluid
4190-4294'	Frac w/ 75327# 20/40 sand 569 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/11/08	11/19/08	24	→	68	20	31			Free flowing through Flowline
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3705' 3906'
				GARDEN GULCH 2 POINT 3	4020' 4302'
				X MRKR Y MRKR	4544' 4579'
				DOUGALS CREEK MRK BI CARBONATE MRK	4709' 4957'
				B LIMESTON MRK CASTLE PEAK	5079' 5572'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6008' Not Noted on Log

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Tammi LeeTitle Production ClerkSignature Date 11/24/2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



**Scientific
Drilling**

Directional Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	Newfield Exploration Co.
Well Name & No.	Jonah Unit Q-5-9-17
County & State	Duchesne County, UT
SDI Job No.	42DEF0810842
Rig	NDSI 2

I, Julie Cruse, having personal knowledge of all the facts, hereby
certify that the attached directional survey run from a measured depth of 0 feet to a
measured depth of 6165 feet is true and correct as determined from all available records.

Julie Cruse
Signature

24-Oct-08
Date

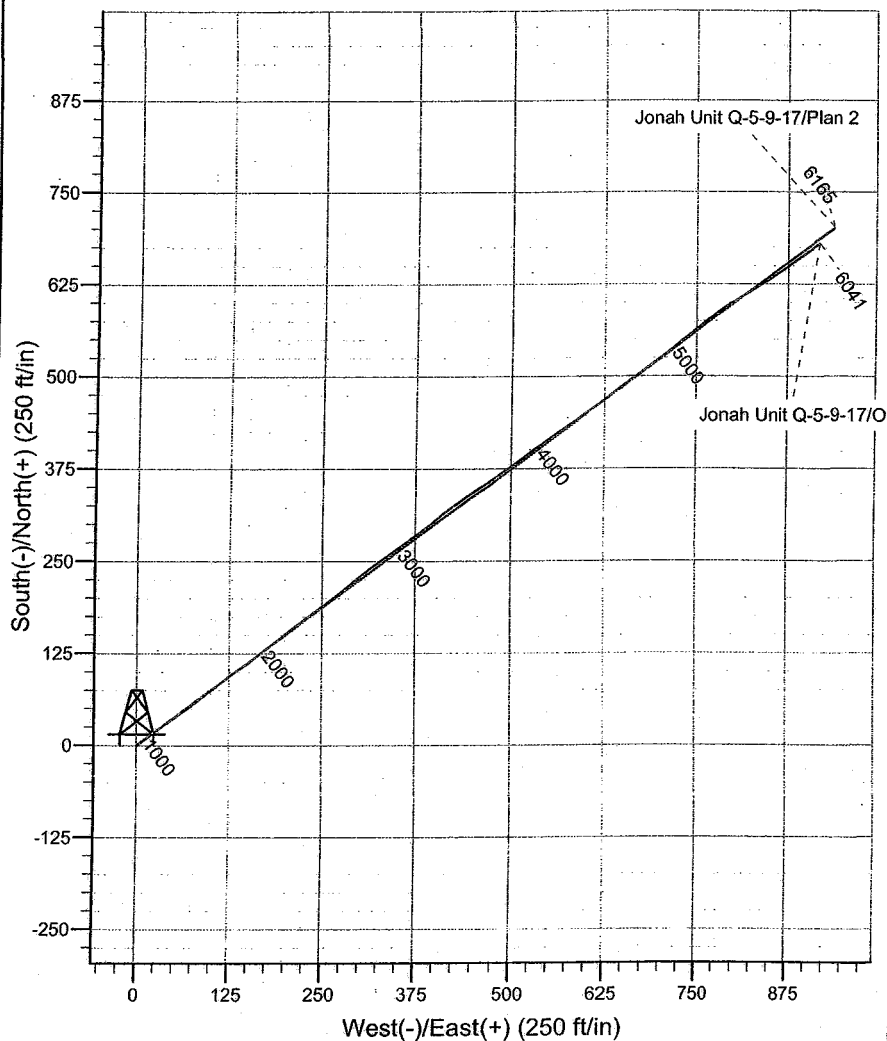
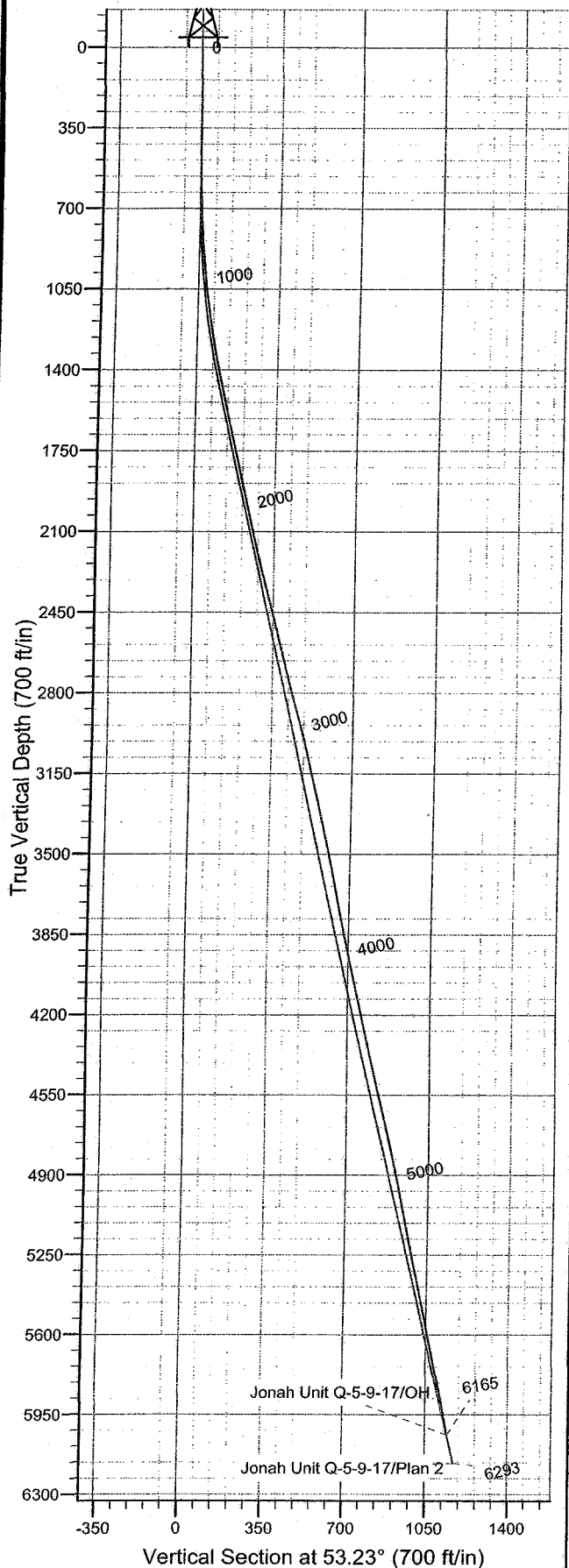
Julie Cruse
Rockies Region Engineer
Scientific Drilling - Rocky Mountain District



Scientific Drilling
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: OH

Newfield Exploration Co.



WELL DETAILS: Jonah Unit Q-5-9-17

+N/-S	+E/-W	Ground Level:	GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)	Latitude	Longitude	Slot
0.00	0.00	North	7191847.11	2049625.61	40° 3' 15.340 N	110° 2' 16.960 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Jonah Unit Q-5-9-17, True North
Vertical (TVD) Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
Calculation Method: Minimum Curvature
Local North: True
Location: Sec 5 T9S R17E

PROJECT DETAILS: Duchesne County, UT NAD83 UTC Design: OH (Jonah Unit Q-5-9-17/OH)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Utah Central Zone

Created By: Laura Turner Date: 2008-10-24

Newfield Exploration Co.

Duchesne County, UT NAD83 UTC

Jonah Unit

Jonah Unit Q-5-9-17

OH

Design: OH

Standard Survey Report

24 October, 2008

Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Jonah Unit Q-5-9-17
TVD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
MD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Project	Duchesne County, UT NAD83 UTC		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site	Jonah Unit, Sec 5 T9S R17E		
Site Position:		Northing:	7,195,384.71 ft
From:	Lat/Long	Easting:	2,044,880.81 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	40° 3' 51.060 N
		Longitude:	110° 3' 17.240 W
		Grid Convergence:	0.93 °

Well	Jonah Unit Q-5-9-17, 588' FSL 521' FWL Sec 5 T9S R17E		
Well Position	+N/-S	0.00 ft	Northing: 7,191,847.11 ft
	+E/-W	0.00 ft	Easting: 2,049,625.61 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 3' 15.340 N
		Longitude:	110° 2' 16.960 W
		Ground Level:	5,245.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2005-10	2008-09-29	11.64
		Dip Angle (°)	65.88
		Field Strength (nT)	52,575

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
		Direction (°)	53.23

Survey Program	Date 2008-10-24		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
350.00	6,165.00	Survey #1 (OH)	MWD
			Description
			MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.24	160.50	350.00	-0.69	0.24	-0.22	0.07	0.07	0.00
First MWD Survey									
381.00	0.37	225.59	381.00	-0.82	0.19	-0.34	1.12	0.42	209.97
412.00	0.23	221.30	412.00	-0.94	0.08	-0.50	0.46	-0.45	-13.84
442.00	0.08	104.82	442.00	-0.99	0.06	-0.54	0.92	-0.50	-388.27
473.00	0.35	83.99	473.00	-0.99	0.18	-0.45	0.89	0.87	-67.19
504.00	0.57	66.11	504.00	-0.91	0.41	-0.22	0.84	0.71	-57.68
535.00	1.05	54.60	534.99	-0.69	0.79	0.22	1.63	1.55	-37.13
565.00	1.35	51.62	564.99	-0.31	1.29	0.85	1.02	1.00	-9.93
596.00	1.69	50.64	595.98	0.21	1.93	1.67	1.10	1.10	-3.16
627.00	2.04	49.56	626.96	0.86	2.70	2.68	1.13	1.13	-3.48
657.00	2.29	51.59	656.94	1.58	3.58	3.81	0.87	0.83	6.77

Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Jonah Unit Q-5-9-17
TVD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
MD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,426.00	14.87	52.21	2,392.02	198.69	264.16	330.54	0.74	-0.53	-1.97
2,456.00	14.68	51.32	2,421.02	203.42	270.17	338.19	0.99	-0.63	-2.97
2,489.00	14.69	50.73	2,452.95	208.68	276.68	346.55	0.45	0.03	-1.79
2,521.00	14.56	49.61	2,483.91	213.86	282.88	354.62	0.97	-0.41	-3.50
2,553.00	13.93	48.81	2,514.92	219.00	288.84	362.47	2.06	-1.97	-2.50
2,584.00	13.38	49.25	2,545.05	223.80	294.37	369.77	1.81	-1.77	1.42
2,616.00	12.85	50.30	2,576.21	228.49	299.91	377.02	1.82	-1.66	3.28
2,648.00	13.36	51.87	2,607.38	233.05	305.56	384.27	1.94	1.59	4.91
2,680.00	13.77	53.14	2,638.49	237.61	311.51	391.77	1.58	1.28	3.97
2,711.00	14.20	53.96	2,668.57	242.06	317.54	399.26	1.53	1.39	2.65
2,743.00	14.64	54.40	2,699.56	246.73	324.00	407.23	1.42	1.37	1.37
2,774.00	14.87	54.44	2,729.54	251.32	330.42	415.13	0.74	0.74	0.13
2,806.00	15.21	54.44	2,760.44	256.15	337.18	423.43	1.06	1.06	0.00
2,838.00	15.60	54.72	2,791.29	261.08	344.11	431.93	1.24	1.22	0.87
2,869.00	15.99	54.56	2,821.12	265.96	350.99	440.36	1.27	1.26	-0.52
2,901.00	15.97	54.43	2,851.88	271.08	358.16	449.17	0.13	-0.06	-0.41
2,933.00	15.48	53.63	2,882.69	276.17	365.18	457.84	1.67	-1.53	-2.50
2,964.00	15.51	52.82	2,912.56	281.13	371.81	466.12	0.70	0.10	-2.61
2,996.00	15.22	52.31	2,943.42	286.28	378.54	474.60	1.00	-0.91	-1.59
3,028.00	15.15	51.52	2,974.30	291.45	385.14	482.98	0.68	-0.22	-2.47
3,060.00	14.98	51.53	3,005.20	296.63	391.65	491.29	0.53	-0.53	0.03
3,091.00	14.17	50.99	3,035.20	301.51	397.74	499.09	2.65	-2.61	-1.74
3,123.00	13.42	49.28	3,066.28	306.39	403.60	506.71	2.67	-2.34	-5.34
3,155.00	13.25	49.58	3,097.42	311.19	409.20	514.07	0.57	-0.53	0.94
3,186.00	13.43	50.73	3,127.58	315.78	414.69	521.21	1.03	0.58	3.71
3,218.00	13.60	52.20	3,158.69	320.44	420.54	528.69	1.20	0.53	4.59
3,250.00	13.83	53.76	3,189.78	325.00	426.60	536.28	1.36	0.72	4.87
3,282.00	13.60	54.84	3,220.87	329.43	432.76	543.86	1.08	-0.72	3.37
3,313.00	13.48	55.12	3,251.01	333.59	438.71	551.11	0.44	-0.39	0.90
3,345.00	13.46	54.40	3,282.13	337.90	444.79	558.57	0.53	-0.06	-2.25
3,377.00	13.19	53.59	3,313.27	342.23	450.76	565.94	1.03	-0.84	-2.53
3,409.00	12.70	53.11	3,344.45	346.51	456.51	573.11	1.57	-1.53	-1.50
3,440.00	12.83	53.28	3,374.69	350.61	462.00	579.96	0.44	0.42	0.55
3,472.00	12.60	54.34	3,405.90	354.77	467.68	587.00	1.02	-0.72	3.31
3,504.00	12.71	55.11	3,437.12	358.82	473.40	594.01	0.63	0.34	2.41
3,535.00	12.75	55.75	3,467.36	362.70	479.03	600.83	0.47	0.13	2.06
3,567.00	12.67	56.25	3,498.58	366.63	484.87	607.87	0.43	-0.25	1.56
3,599.00	12.21	55.89	3,529.83	370.48	490.59	614.75	1.46	-1.44	-1.12
3,631.00	11.51	55.44	3,561.14	374.19	496.02	621.32	2.21	-2.19	-1.41
3,662.00	11.67	54.41	3,591.51	377.77	501.11	627.55	0.84	0.52	-3.32
3,694.00	11.84	53.61	3,622.84	381.60	506.39	634.07	0.74	0.53	-2.50
3,726.00	11.65	52.59	3,654.17	385.51	511.60	640.58	0.88	-0.59	-3.19
3,757.00	11.37	52.16	3,684.55	389.29	516.50	646.76	0.94	-0.90	-1.39
3,789.00	11.04	52.28	3,715.94	393.10	521.41	652.98	1.03	-1.03	0.37
3,821.00	11.28	53.10	3,747.33	396.85	526.34	659.18	0.90	0.75	2.56
3,853.00	11.36	53.76	3,778.71	400.59	531.38	665.46	0.48	0.25	2.06
3,884.00	11.64	54.42	3,809.09	404.22	536.39	671.64	1.00	0.90	2.13
3,916.00	11.90	54.92	3,840.41	407.99	541.71	678.16	0.87	0.81	1.56
3,948.00	12.37	54.98	3,871.70	411.85	547.22	684.88	1.47	1.47	0.19
3,980.00	12.68	55.41	3,902.94	415.81	552.92	691.82	1.01	0.97	1.34
4,011.00	13.03	55.25	3,933.16	419.74	558.59	698.71	1.13	1.13	-0.52
4,043.00	13.03	55.32	3,964.34	423.85	564.52	705.92	0.05	0.00	0.22
4,075.00	12.87	55.40	3,995.52	427.92	570.42	713.09	0.50	-0.50	0.25
4,106.00	12.38	55.30	4,025.77	431.78	575.99	719.86	1.58	-1.58	-0.32

Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Jonah Unit Q-5-9-17
TVD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
MD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,138.00	12.27	54.68	4,057.03	435.69	581.59	726.69	0.54	-0.34	-1.94
4,170.00	12.28	53.61	4,088.30	439.68	587.10	733.49	0.71	0.03	-3.34
4,202.00	12.19	53.60	4,119.58	443.70	592.56	740.27	0.28	-0.28	-0.03
4,233.00	12.26	54.37	4,149.87	447.56	597.87	746.83	0.57	0.23	2.48
4,265.00	12.18	55.09	4,181.15	451.47	603.40	753.61	0.54	-0.25	2.25
4,297.00	12.76	55.08	4,212.39	455.43	609.07	760.51	1.81	1.81	-0.03
4,328.00	13.02	54.04	4,242.61	459.44	614.70	767.42	1.12	0.84	-3.35
4,360.00	12.83	53.36	4,273.80	463.68	620.47	774.58	0.76	-0.59	-2.12
4,392.00	12.81	52.36	4,305.00	467.96	626.13	781.68	0.70	-0.06	-3.12
4,424.00	12.38	51.74	4,336.23	472.25	631.63	788.66	1.41	-1.34	-1.94
4,455.00	12.51	51.33	4,366.51	476.41	636.86	795.34	0.51	0.42	-1.32
4,487.00	13.03	52.21	4,397.71	480.78	642.42	802.41	1.73	1.62	2.75
4,519.00	13.17	52.34	4,428.88	485.22	648.16	809.66	0.45	0.44	0.41
4,550.00	12.95	52.77	4,459.08	489.48	653.72	816.66	0.78	-0.71	1.39
4,582.00	12.70	53.04	4,490.28	493.77	659.38	823.77	0.80	-0.78	0.84
4,614.00	12.80	53.61	4,521.49	497.98	665.05	830.83	0.50	0.31	1.78
4,646.00	12.67	54.55	4,552.70	502.12	670.76	837.88	0.76	-0.41	2.94
4,678.00	12.42	54.62	4,583.94	506.15	676.42	844.83	0.78	-0.78	0.22
4,709.00	12.10	53.81	4,614.23	510.00	681.77	851.41	1.17	-1.03	-2.61
4,741.00	12.06	53.07	4,645.53	513.99	687.14	858.11	0.50	-0.12	-2.31
4,773.00	12.18	52.69	4,676.81	518.04	692.50	864.83	0.45	0.37	-1.19
4,804.00	12.24	52.77	4,707.11	522.01	697.72	871.38	0.20	0.19	0.26
4,836.00	12.30	52.65	4,738.38	526.13	703.13	878.18	0.20	0.19	-0.37
4,868.00	12.64	52.95	4,769.62	530.31	708.63	885.09	1.08	1.06	0.94
4,900.00	12.97	53.46	4,800.83	534.56	714.31	892.19	1.09	1.03	1.59
4,931.00	12.68	52.77	4,831.06	538.69	719.82	899.07	1.06	-0.94	-2.23
4,963.00	11.80	51.23	4,862.33	542.86	725.16	905.85	2.93	-2.75	-4.81
4,995.00	11.15	49.32	4,893.69	546.93	730.06	912.21	2.35	-2.03	-5.97
5,026.00	11.06	49.77	4,924.11	550.80	734.61	918.16	0.40	-0.29	1.45
5,058.00	10.79	50.88	4,955.53	554.67	739.27	924.22	1.07	-0.84	3.47
5,090.00	10.56	51.97	4,986.97	558.37	743.91	930.14	0.96	-0.72	3.41
5,122.00	10.68	52.64	5,018.43	561.98	748.57	936.04	0.54	0.37	2.09
5,153.00	10.66	52.77	5,048.89	565.45	753.14	941.78	0.10	-0.06	0.42
5,185.00	11.01	53.20	5,080.32	569.07	757.94	947.80	1.12	1.09	1.34
5,217.00	11.37	53.70	5,111.71	572.77	762.93	954.01	1.17	1.12	1.56
5,248.00	11.47	53.53	5,142.10	576.41	767.87	960.14	0.34	0.32	-0.55
5,280.00	11.19	52.44	5,173.47	580.20	772.89	966.43	1.10	-0.87	-3.41
5,311.00	11.25	51.22	5,203.88	583.93	777.63	972.46	0.79	0.19	-3.94
5,343.00	11.69	51.57	5,235.24	587.90	782.61	978.82	1.39	1.37	1.09
5,375.00	11.70	53.44	5,266.58	591.84	787.75	985.30	1.18	0.03	5.84
5,405.19	11.87	57.37	5,296.13	595.34	792.83	991.46	2.71	0.56	13.01
JU Q-5-9-17 PBHL Rev 1									
5,407.00	11.88	57.60	5,297.90	595.54	793.14	991.83	2.71	0.65	12.81
5,438.00	12.04	59.23	5,328.23	598.90	798.61	998.23	1.21	0.52	5.26
5,470.00	12.01	58.89	5,359.53	602.33	804.33	1,004.86	0.24	-0.09	-1.06
5,501.00	11.93	58.55	5,389.85	605.67	809.83	1,011.26	0.34	-0.26	-1.10
5,533.00	11.60	57.50	5,421.18	609.12	815.36	1,017.76	1.23	-1.03	-3.28
5,565.00	11.10	56.69	5,452.56	612.55	820.65	1,024.05	1.64	-1.56	-2.53
5,596.00	11.28	56.43	5,482.97	615.86	825.67	1,030.05	0.60	0.58	-0.84
5,660.00	11.84	57.75	5,545.67	622.83	836.44	1,042.85	0.97	0.87	2.06
5,755.00	12.02	57.69	5,638.62	633.31	853.04	1,062.43	0.19	0.19	-0.06
5,850.00	11.70	54.99	5,731.59	644.13	869.29	1,081.92	0.67	-0.34	-2.84
5,945.00	11.73	52.57	5,824.61	655.52	884.85	1,101.20	0.52	0.03	-2.55
6,040.00	10.37	54.49	5,917.85	666.36	899.48	1,119.41	1.48	-1.43	2.02
6,108.00	9.62	56.05	5,984.82	673.09	909.17	1,131.20	1.17	-1.10	2.29

Scientific Drilling

Survey Report

Company: Newfield Exploration Co.
Project: Duchesne County, UT NAD83 UTC
Site: Jonah Unit
Well: Jonah Unit Q-5-9-17
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Jonah Unit Q-5-9-17
TVD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
MD Reference: GL 5245' & RKB 12' @ 5257.00ft (NDSI 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,165.00	9.62	56.05	6,041.01	678.41	917.07	1,140.71	0.00	0.00	0.00
Projection to TD									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
JU Q-5-9-17 PBHL R	0.00	0.00	5,300.00	582.33	779.26	7,192,442.10	2,050,395.25	40° 3' 21.095 N	110° 2' 6.938 W
- actual wellpath misses target center by 19.20ft at 5405.19ft MD (5296.13 TVD, 595.34 N, 792.83 E)									
- Circle (radius 75.00)									
JU Q-5-9-17 PBHL	0.00	0.00	6,165.00	582.33	779.26	7,192,442.10	2,050,395.25	40° 3' 21.095 N	110° 2' 6.938 W
- actual wellpath misses target center by 208.80ft at 6165.00ft MD (6041.01 TVD, 678.41 N, 917.07 E)									
- Circle (radius 75.00)									

Checked By: _____ Approved By: _____ Date: _____